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1986 - 1990

Arizona Occupational Profile

A Labor Market Information Publication
of the Department of Economic Security

Hospitals

Map of Arizona

OCCUPATIONAL PROFILE

The value of current occupational employment information has long been recognized by job seekers, public and private administrators, and those involved in training, recruiting, and counseling. A major source of this information in Arizona is the Occupational Employment Statistics (OES) Program--a cooperative effort between Arizona and the U.S. Bureau of Labor Statistics.

This Occupational Profile is one in a series of publications produced from information developed by the Occupational Employment Statistics survey. These publications represent one of several occupational employment information delivery systems incorporating OES survey data. The survey which requires the cooperation of the Arizona business community is used to collect employment data by county for over 700 occupations in Arizona. Current employment in the various occupations is then determined and an occupational outlook is formulated. The Occupational Profiles contain the survey findings and examine, individually, the following industries of Arizona:

Construction
Educational Services
Finance, Insurance, and Real Estate
Government
Hospitals
Lodging
Manufacturing
Mining
Services
Trade
Transportation, Communications, and Public Utilities

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INDUSTRY INFORMATION

INDUSTRY DEFINITION

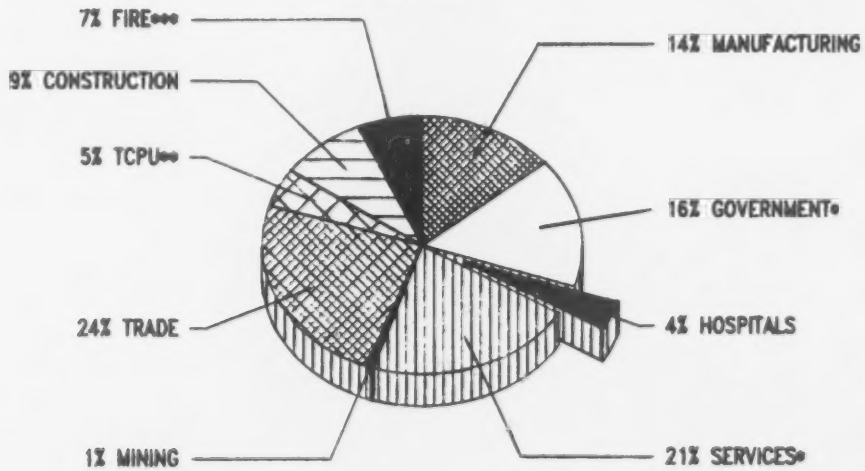
The hospital services industry includes establishments primarily engaged in providing diagnostic medical services, extensive medical treatment including surgery, continuous nursing care, and academic and research activities. These establishments have the facilities, staff, and equipment to provide comprehensive health care to patients requiring either acute or rehabilitative care. This definition of the hospital industry corresponds to the establishments found under industry-group code 806 of the Standard Industrial Classification (SIC) Manual and does not include offices of health care practitioners, nursing and personal care facilities, medical and dental laboratories, and outpatient care facilities.

The occupational employment information presented in this publication is based on data provided by the hospitals operating in Arizona in May 1986. These hospitals may be categorized as general, psychiatric, or specialty hospitals, e.g., geriatric, maternity, orthopedic, and children's hospitals. Included within the scope of this publication are private hospitals; hospitals administered by federal, state, and local governments; and those operated by firms identified with other industries, e.g., mining.

INDUSTRY CHARACTERISTICS

Hospitals are the largest employers of health workers in the state. Of the 92,500 workers in Arizona's health care delivery system, hospitals employ nearly 56 percent. Representing 3.8 percent of all workers in Arizona, hospitals in the state employed about 51,500 in 1986.

ARIZONA NONAGRICULTURAL EMPLOYMENT 1986



* EXCLUDES HOSPITALS
** TCPU = TRANSPORTATION, COMMUNICATIONS, AND PUBLIC UTILITIES
*** FIRE = FINANCE, INSURANCE, AND REAL ESTATE

Although most hospitals in the state are privately owned (71), the majority (54) are operated on a nonprofit basis. State and local governments administer seven of the 96 hospitals operating in Arizona. Federal hospitals, on the other hand, include four military facilities, 11 Public Health Service (PHS) or Indian Hospitals, and three Veterans Administration facilities.

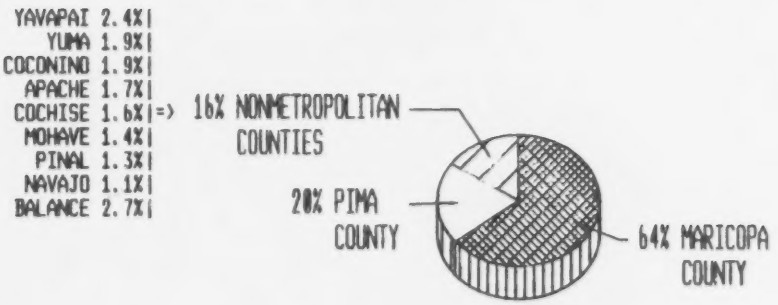
The table on the opposite page presents the latest available list of hospital facilities in Arizona. It was derived from information provided by the Office of Health Economics and Facilities Review of the Arizona Department of Health Services. This table lists facilities that meet the state's licensure requirements and it varies slightly from the list of hospitals surveyed in May of 1986.

Although in a period of rapid change and redefinition of roles, hospitals may still be regarded as belonging in one of the three previously mentioned categories: general, psychiatric, or specialty. General hospitals employ the majority of hospital workers and represent 81 percent of all hospitals in the state. These hospitals are primarily engaged in rendering care for patients with medical conditions that require medical and surgical treatment as well as inpatient care.

Psychiatric hospitals are primarily involved in providing diagnostic medical services and inpatient treatment for the mentally ill. During the last five years, the number of psychiatric hospitals in Arizona has nearly tripled, totaling 17 by the end of 1987.

Specialty hospitals, except psychiatric, provide services to patients with specific illnesses and conditions such as tuberculosis; orthopedic disorders; chronic diseases; maternity; and ear, nose, and throat ailments. Also classified in this category are geriatric and children's hospitals and others that specialize in treating conditions common to certain segments of the population. In Arizona, there is one specialty hospital, other than psychiatric, which is located in Phoenix. Increasingly, general hospitals are providing treatment for conditions that were once treated at specialty hospitals.

GEOGRAPHIC DISTRIBUTION OF HOSPITAL EMPLOYMENT MAY 1986



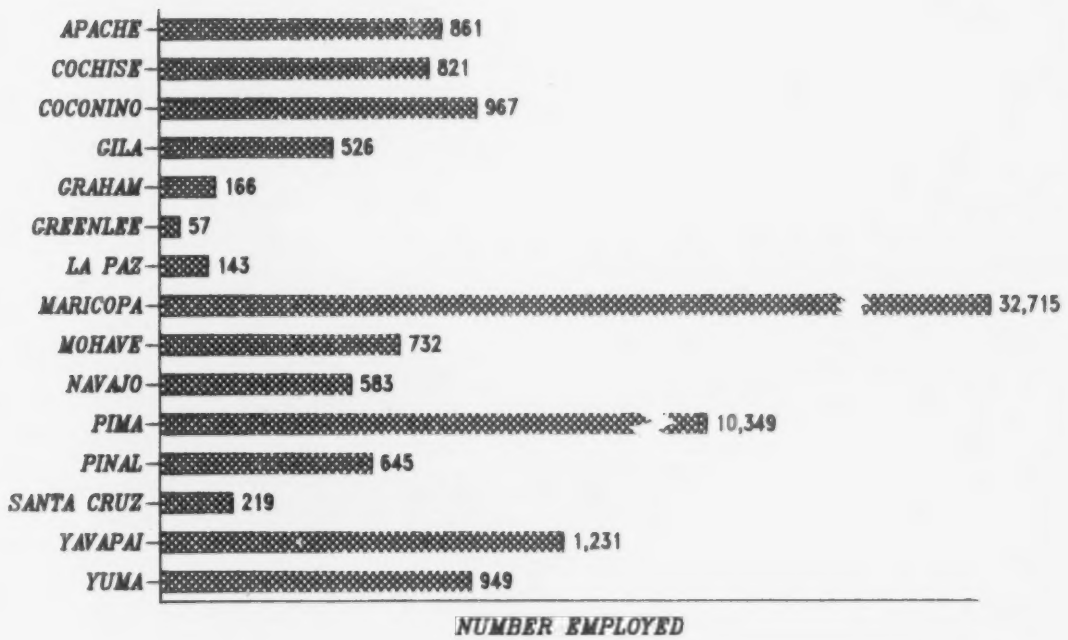
1987 ARIZONA HOSPITALS AT A GLANCE

COUNTY	FACILITIES	BEDS	CATEGORY	OWNERSHIP
Apache	4	241	General	Private (2) Federal-PHS* (2)
Cochise	7	403	General (6) Psychiatric (1)	Private (6) Federal-Army (1)
Coconino	3	243	General	Private (2) Federal-PHS (1)
Gila	4	278	General	Private (2) Federal-PHS (1) State or Local Govt. (1)
Graham	1	42	General	Private
La Paz	2	59	General	Private (1) Federal-PHS (1)
Maricopa	42	8,691	General (29) Psychiatric (12) Specialty (1)	Private (34) Federal (4) Air Force (2) Veterans Adm. (1) PHS (1) State or Local Govt. (4)
Mohave	3	203	General	Private
Navajo	5	212	General	Private (3) Federal-PHS (2)
Pima	15	3,109	General (11) Psychiatric (4)	Private (11) Federal (3) Air Force (1) Veterans Adm. (1) PHS (1) State or Local Govt. (1)
Pinal	4	241	General	Private (2) Federal-PHS (1) State or Local Govt. (1)
Santa Cruz	1	49	General	Private
Yavapai	3	445	General	Private (2) Federal-Veterans Adm. (1)
Yuma	2	300	General	Private (1) Federal-PHS (1)
STATEWIDE	96	14,421	General (78) Psychiatric (17 Specialty (1)	Private (71) Federal (18) State or Local Govt. (7)

* Public Health Service

The geographic distribution of hospital employment resembles the distribution of total employment in Arizona. Nearly 85 percent is concentrated in the two metropolitan areas. The facilities, however, are more evenly distributed throughout the state--about 60 percent in Maricopa and Pima counties and 40 percent in the lesser populated areas of the state. Yet, metropolitan hospitals, with an average of 200 beds per facility, have nearly four times the capacity of their rural counterparts.

DISTRIBUTION OF HOSPITAL EMPLOYMENT BY COUNTY

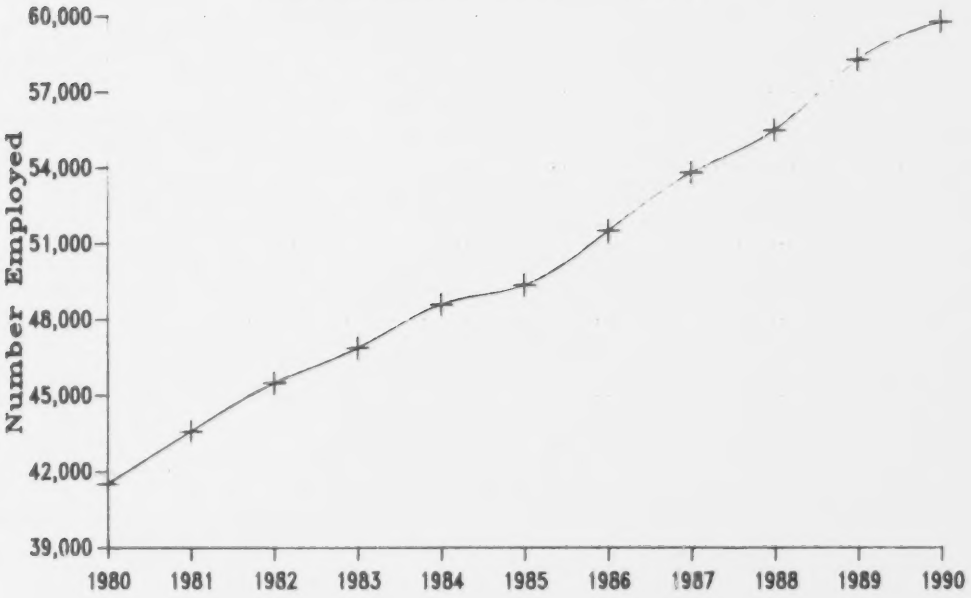


INDUSTRY TRENDS

Since the last recession, employment growth in Arizona has kept pace with the substantial population increase. Hospital employment, however, which traditionally had double the growth rate of the state's employment, has shown weaker growth since 1982. Between 1982 and 1986, hospital employment expanded by 6,000, or 13 percent, whereas Arizona's total employment rose by 30.3 percent. During the same period, outpatient care facilities as well as nursing and personal care facilities had growth rates double that of the state's total employment, with 57.4 and 66.8 percent.

Between 1980 and 1986, employment in government hospitals declined by nearly 2,000 or 13.2 percent, while that in private hospitals posted a 43.1 percent gain. Budgetary constraints and the trend toward privatization have contributed to the decline of government hospital employment. But because most hospital workers are employed by private hospitals, employment growth for Arizona's hospital industry averaged 24 percent from 1980 to 1986.

HOSPITAL EMPLOYMENT GROWTH 1980 - 1986 AND PROJECTIONS 1987 - 1990



Nationally, hospital employment growth averaged 3.5 percent annually from 1977 to 1982. In 1983, however, hospital employment slowed its pace of growth to 2.5 percent, followed by a 1.8 percent decline or 73,000 lost jobs in 1984 and a 1 percent decline or 37,000 in 1985.

Although the demand for health care throughout the nation remains strong as the population ages, hospital employment growth is expected to be moderate with an annual 1 percent through the year 2000. On the other hand, sectors in health care such as outpatient facilities and miscellaneous health services, nursing and personal care facilities, and offices of health practitioners, are among the nation's fastest growing industries.

The health care delivery system is undergoing substantial changes which will have implications on future employment in the hospital industry. In addition to the demographic trends and adyances in medical technologies, rising costs of health care will continue to be a central factor in the development of these changes.

Prior to the 1970s, consumers were responsible for nearly one-half of the cost of their health care and many people could not afford it. But as a result of efforts to provide better access to health care, the payment responsibility shifted from the consumer to insurance companies and government programs. Currently, these two sources provide 90 percent of all hospital care expenditures. The shift in financial responsibility encouraged the performance of new tests and procedures, and fostered the application of new technologies, such as nuclear magnetic resonance, CAT scans, nuclear medicine, ultrasound, and preventive surgical procedures including coronary bypass surgery. But along with technology and new procedures came rising costs.

In the early 1980s, the cumulative effect of inflation, recession, and escalating costs of health benefits threatened the solvency of the Medicare system. In 1983, the Social Security amendment mandated a new system for hospital payments in an attempt to limit the rising costs of health care. Under the new system, hospitals are compensated according to a predetermined average cost of patient care. Different rates are assigned for each of the 467 diagnosis-related groups (DRGs), and hospitals are reimbursed according to that schedule. The DRG-based payment system allows hospitals to retain any savings or to absorb any expenses in excess of the amount allocated for the corresponding DRG. Hospitals are thus encouraged to keep their costs down. Under the previous system, Medicare reimbursed hospitals for any amount spent.

The industry has responded to the new DRG-based system with procedures to manage admissions and patient flow, monitor the number of tests and interventions ordered by physicians, and control operating expenditures. Data from the American Hospital Association indicate that, since the beginning of 1983, there has been some shift in hospital utilization. The average length-of-stay of patients over 65 years of age dropped to 8.8 days in 1984 from 10.1 days in 1982. In addition, there has been a sharp decline in admissions of all patients under 65. Among the most likely reasons for these shifts in hospital utilization are the built-in incentives of the DRG-based reimbursement system as well as technological developments that have enabled the substitution of ambulatory services for inpatient care, and the use of laser technology which has drastically reduced inpatient recovery periods.

The reduction in demand for inpatient services has prompted hospitals to broaden their range of programs and services, particularly with those unrestricted by DRG schedules. Services, such as hospice care, rehabilitation, alcohol and other drug-dependency treatments, birthing centers, outpatient surgery, geriatric assessment, cancer screening, health education, and even sports-medicine programs are increasingly becoming part of many hospitals' regular services.

Representing over 50 percent of community hospitals' operating budgets, labor costs receive scrutiny when budgetary reductions are on the horizon. Hospital representatives most often cite cost-containment initiatives as among the main reasons for declines in hospital employment growth. A growing trend in this industry is to reduce unnecessary personnel through attrition and, to a lesser extent, hiring freezes.

Shorter hospital stays and substitution of outpatient for inpatient services have not only suppressed hospital employment growth, but have indirectly fostered the unprecedented growth of other health industries, such as health maintenance organizations (HMOs), nursing care facilities, and offices of health practitioners. On the other hand, employment expansion in the hospital industry can be attributed, for the most part, to the increase in the number of tests, procedures, surgical interventions for previously untreatable or undiagnosed conditions, and to the diversification of services. To supplement the demand for personnel in these areas, hospitals are contracting services, hiring part-time workers, and maintaining a number of on-call staff.

In general, elements reshaping the hospital industry nationally are also impacting the hospital industry in Arizona. But in Arizona, there is also a unique set of socioeconomic forces influencing the growth of the industry. Population growth, in particular, has been a driving force behind the growth of all industries in the state and especially the hospital industry. Although population growth in Arizona has begun to taper down, approximately 100,000 new residents have been added to the state's population each year since 1980. During that time, Arizona's private hospitals expanded 7.2 percent annually. In the coming years, however, the projected growth rate for employment in hospitals is 4.1 percent annually.

Although employment in Arizona's health care delivery system will continue to expand at a faster rate than the economy as a whole, the growth rates of the different components of the health industry will vary significantly. From 1986 to 1990, Arizona's hospital employment will expand approximately 17 percent, whereas nursing and personal care facilities as well as outpatient care facilities will increase employment by nearly 26 percent.

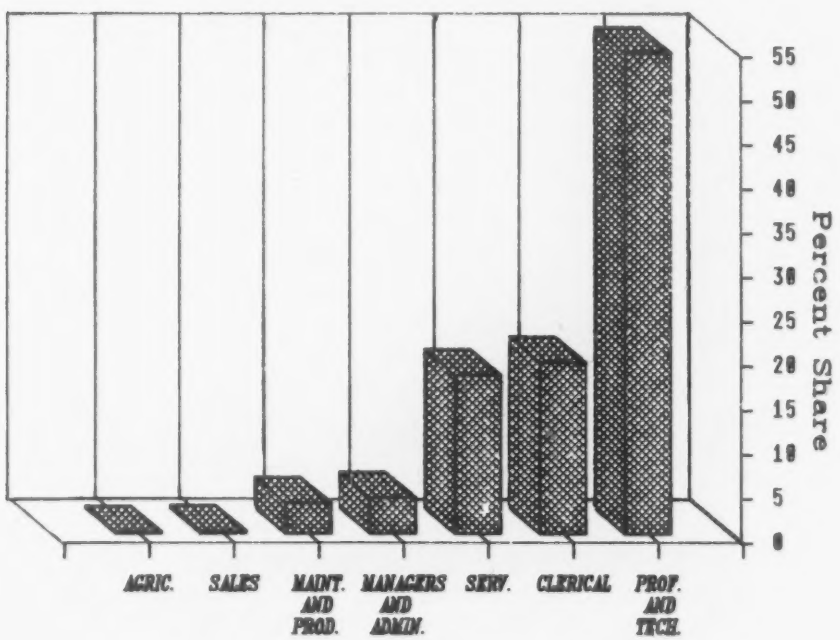
The hospital industry is expected to continue its evolution, particularly in acute, geriatric, and long-term care, in response to the aging of the population. Furthermore, the entire health care delivery system also will continue to evolve in response to demographic, social, technological, and economic changes.

OCCUPATIONAL INFORMATION

Hospital employees are engaged in a broad range of medical and administrative activities requiring a variety of occupational skills. In addition to the medical personnel that we traditionally associate with this industry, hospitals also employ accountants and auditors, engineers, librarians, and other seemingly unrelated occupations. In some respects, the hospital resembles and incorporates activities usually found in commercial enterprises. In addition to the business, administrative, and service departments common to commercial firms, hospitals often include dietary services, a power plant, and maintenance staff. Above all, however, the hospital brings together various types of personnel and facilities for specific lifesaving efforts and related public health, educational, and research activities.

Although the hospital environment encompasses personnel with a variety of occupational skills, the bulk of hospital employment is in health-related occupations that are of a professional or technical nature. Led by 14,444 registered nurses (RNs), the "professional, paraprofessional, and technical workers" category accounts for 54.5 percent of the state's hospital employment. Along with registered nurses, there are a variety of other numerically prominent health practitioners including 2,434 licensed practical nurses (LPNs), 1,025 physicians and surgeons, and 1,158 medical and clinical laboratory technologists.

MAJOR OCCUPATIONAL CATEGORIES
HOSPITALS - 1986



In Arizona, as in the rest of the nation, the hospital industry has undergone substantial changes which have impacted not only employment growth, but occupational composition as well. Between 1980 and 1986, the professional, paraprofessional, and technical workers occupational category gained a 4.3 percent share of Arizona's hospital employment. This increase, for the most part, is attributable to the rising proportion of RNs and medical and clinical laboratory technologists. On the other hand, hospitals are not employing LPNs at the proportional levels of 1980. In 1980, LPNs represented 5.9 percent of Arizona's hospital workers, and only 4.8 percent in 1986.

OCCUPATIONAL STRUCTURE 1980 AND 1986
HOSPITALS

	1980 %	1986 %	1980-1986 CHANGE (Percentage Points)
Managerial and Administrative	4.2	4.1	-.1
Professional, Paraprofessional, and Technical	50.2	54.5	4.3
Sales and Related	.1	.3	.2
Clerical and Administrative Support	18.1	19.4	1.3
Service	23.5	18.0	-5.5
Agricultural, Forestry, and Related	0	.2	.2
Production, Maintenance, and Material Handling	3.9	3.5	-.4
TOTAL	100%	100%	---

Proportionally, the second-largest occupational category in 1980 was service. But in 1986, service became the third-largest occupational category in hospitals losing 5.5 percentage points of its employment share to the clerical and administrative support group. The losses in the service category can be traced to a lower representation of nursing aides, orderlies, and attendants on hospital payrolls (5.2 percent), whereas gains in the clerical and administrative support group are attributable to increases in general office clerks (2.0 percent).

Over 8 percent of all new jobs created in Arizona between 1986 and 1990 will be in the health care delivery system. Of these 15,600 new jobs, nearly 9,000 will be in hospitals. Although the hospital industry is expected to grow more slowly than other sectors in health services, it will hire the majority of workers through 1990 because the hospitals employ 56 percent of the state's health workers. In addition, 9,922 openings will result from workers leaving the labor force (separations), and many more as employees leave one job to take another (turnover).

Few job seekers will find a greater number of opportunities than those aspiring to be registered nurses. Hospitals in Arizona will need approximately 5,800 additional RNs by 1990. The strong demand for RNs is, in part, a function of their training, which permits them to work effectively in a variety of roles and employment settings. The growth of intensive care, coronary care, and other special units for seriously ill patients has strengthened the demand for clinically specialized nursing personnel.

Nevertheless, the percentage of college freshmen pursuing a nursing career has declined 50 percent over the past ten years. Already, the decline of nursing-school enrollments is impacting the supply of registered nurses available to hospitals. The undersupply of RNs represents a serious challenge for the hospital industry, since hospitals employ two out of every three RNs. On the other hand, as the competition for qualified RNs intensifies and hospitals are faced with shortages, salaries and career prospects for these professionals are expected to improve.

Because of the versatility of RNs, hospitals are relying more on RNs and less on LPNs and nursing aides. Cost containment measures and the use of sophisticated technologies are contributing to this trend. Because of shifting roles, however, it is expected that the lower demand for hospital LPNs will be offset by growing demand for LPNs in home health agencies, nursing homes, clinics, and other establishments assuming responsibilities formerly claimed by hospitals.

Nursing aides, orderlies, and attendants represent the second largest occupational group in hospitals. With employment of 2,624 in 1986, nursing aides, orderlies, and attendants are expected to number 3,082 by 1990. Employment growth in these occupations should be higher in nursing home facilities than in the hospital industry. Replacement needs will be an additional source of job openings for workers, as high separation and turnover rates are common in these occupations.

Demand for physicians is heightened by a growing and aging population, the widespread access to medical care, and increases in medical research. Nevertheless, the supply of physicians will remain high through the 1990s, particularly in large metropolitan areas. In 1984, one-fourth of all physicians were in residency programs or full-time staff members in hospitals. For the foreseeable future, however, HMOs and other outpatient care facilities will continue to add salaried physicians to their payrolls diminishing the number of practitioners who charge on a fee-for-service basis. Projections indicate that by 1990 hospitals in the state will employ 1,200 physicians, approximately 175 more than in 1986.

As already mentioned, the hospital industry is contracting personnel services from temporary employment agencies and professional contractors in coping with variations in supply, demand, and cost of labor. This practice is, in part, influencing the projected employment in occupations often contracted, such as physicians and surgeons, nurses, clerks, and personnel in administrative support, because these workers are not included on hospital payrolls.

Employment of medical technologists and technicians in hospitals is expected to grow more slowly than in the past. Prompted by the new payment system for hospital care, cost-containment measures are likely to shift some laboratory testing from hospitals to other health establishments. Hospitals are also eliminating nonessential routine tests and incorporating improved laboratory procedures. In settings such as commercial laboratories, physicians offices, HMOs, and ambulatory care clinics, employment of laboratory personnel is expected to rise more rapidly than in the hospital industry.

OCCUPATIONS WITH OVER 200
JOBS IN ARIZONA'S HOSPITALS

	Employment 1986	Job Openings* 1986-1990
Registered Nurses	14,444	5,777
Nursing Aides, Orderlies, and Attendants	2,624	1,064
General Office Clerks	2,448	991
Licensed Practical Nurses	2,434	1,054
Maids and Housekeeping Cleaners	1,838	812
Medical and Clinical Laboratory Technologists	1,158	438
Public Relations Specialists and Publicity Writers	1,105	370
Medicine and Health Services Managers	1,034	334
Physicians and Surgeons	1,025	295
Typists	821	372
Food Preparation Workers	815	300
Secretaries (Excluding Medical)	786	333
Interviewing Clerks, Excluding Personnel and Social Welfare	677	231
Radiologic Technologists	653	231
Food Servers, Outside	640	187
Respiratory Therapists	610	209
Medical Secretaries	605	261
Pharmacists	576	205
Stock Clerks-Stockroom, Warehouse, or Storeyard	565	151
Social Workers, Medical and Psychiatric	561	203
Medical and Clinical Laboratory Technicians	526	170
Billing, Cost, and Rate Clerks	521	206
Statistical Clerks	515	207
First Line Supervisors-Clerical and Administrative Support	480	143
Psychiatric Aides	399	159
Cooks, Institution or Cafeteria	389	126
Surgical Technicians	376	119
All Other Management Support Workers	369	104
Maintenance Repairers, General Utility	359	82
Pharmacy Assistants	336	137
Radiologic Technicians	333	112
Switchboard Operators	332	154
Medical Records Technicians and Technologists	323	147
Medical Assistants	311	123
Physical Therapists	308	103
Bookkeeping, Accounting, and Auditing Clerks	291	109
All Other Clerical and Administrative Support Workers	284	54
All Other Material Recording/Scheduling/Distribution Workers	264	75
Physical and Corrective Therapy Assistants and Aides	262	103
Guards and Watch Guards	258	53
All Other Managers and Administrators	248	70
Data Entry Keyers, Excluding Composing	235	63
All Other Health Service Workers	234	57
General Managers and Top Executives	230	64
Receptionists and Information Clerks	212	84

* Excludes job opportunities resulting from turnover.

Few occupations reflect the impact of scientific advances as much as technical workers in hospitals. Computerized tomography (CT), CAT scans, ultrasound, nuclear magnetic resonance (NMR), and digital radiography procedures are expected to be followed by new generations of devices and techniques requiring more sophisticated technical skills. For example, an area of laboratory testing that is likely to expand in the coming years is immunodiagnostics, which may enable identification of major diseases in early or presymptomatic stages. In 1986, approximately 1,684 medical technologists and technicians worked in hospitals in Arizona, representing 3.3 percent of all hospital workers.

Technological advances are also manifesting themselves in hospital offices where computers are increasing productivity levels. From intake to discharge, various applications of computer technology are being incorporated. Particularly in medical records offices, technicians with proficient computer coding skills will continue to be in demand.

Despite automation of office procedures, clerical and administrative support occupations have increased their share of hospital employment during the 1980s. Rather than significantly suppressing employment levels in these occupations, automation is redefining many of the tasks performed by clerical personnel. Also, clerical occupations related to the fulfillment of DRG coding and billing requirements, such as general office clerks, interviewing clerks, typists, secretaries, and billing clerks will see the greatest number of job openings during the projection period.

About 1,900 managers and administrative personnel were planning, coordinating, and evaluating hospital activities in Arizona in 1986. Nearly 50 percent of these workers were medical and health services managers while the balance performed a wide range of administrative functions. An increasingly competitive health care system will require skilled health services managers and specialists in such areas as finance, marketing and public relations, information systems, and purchasing.

Workers in production, material handling, and maintenance occupations totaled 1,800 and represented 3.5 percent of the industry's employment in 1986. General utility maintenance workers were the most prominent with employment of 360. Laundry and dry cleaning operators and tenders numbered 168, followed by stationary engineers with employment of 123. Between 1985 and 1990, employment in occupations that depend on hospital inpatient census (i.e., laundry, housekeeping, and patient transport) will likely remain at the same level, and hiring is expected to be limited to replacement needs.

OCCUPATIONAL STRUCTURE

The following tables provide employment estimates and projected employment and job openings for the counties and the state.

When using the data, please note the following:

1. Hospital employment growth in each of the nonmetropolitan counties reflects the rate calculated for the "balance of state" (Arizona less Maricopa and Pima counties).

2. The data reflect full- and part-time wage and salary employment only, and do not include self-employed or unpaid family workers.

3. Total job openings represent the number of openings due to growth of the industry and separations from the labor force. They do not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

4. The projection technique does not possess the degree of accuracy that may be implied by unrounded numbers.

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE

	ESTIMATED MAY 1986 EMPLOYMENT	PERCENT OF MAY 1986 EMPLOYMENT	ESTIMATED MAY 1987 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	2,112	4.1	2,227	2,474	632
Financial Managers	141	.3	148	165	42
Personnel, Training, & Labor Relations Mgrs.	107	.2	112	126	32
Purchasing Managers	41	.1	42	48	8
Marketing, Advertising, & Public Rel. Mgrs.	72	.1	76	83	18
Administrative Services Managers	74	.1	78	86	19
Engineering, Mathematical & Natural Sciences Managers	93	.2	98	108	25
Medicine & Health Services Managers	1,034	2.0	1,092	1,213	334
Food Service & Lodging Managers	72	.1	76	84	20
General Managers & Top Executives	230	.5	242	271	64
All Other Managers & Administrators	248	.5	263	290	70
PROFESSIONAL, PARAPROFESSIONAL, TECHNICAL	27,761	54.5	29,334	32,547	10,386
Management Support Occupations	846	1.7	895	988	230
Accountants & Auditors	112	.2	119	131	33
Budget Analysts	27	.1	28	31	5
All Other Financial Specialists	33	.1	35	39	9
Purchasing Agents, Exc. Wholesale, Retail, & Farm	133	.3	140	155	34
Personnel, Training, & Labor Rel. Specialists	158	.3	167	186	42
Compliance & Enforcement Inspectors, Exc. Const.	14	0	15	16	3
All Other Management Support Workers	369	.7	391	430	104
Engineering & Related Occupations	147	.3	153	170	24
Civil Engineers, Incl. Traffic	20	0	20	23	3
Electrical & Electronic Engineers	5	0	5	6	1
Industrial Engineers, Exc. Safety	2	0	2	2	0
Mechanical Engineers	20	0	21	24	4
All Other Engineers	30	.1	32	35	5
Civil Engineering Technicians & Technologists	11	0	11	12	1
Electrical/Electronic Engineering Technicians	31	.1	33	36	6
Mechanical Engineering Techs.	7	0	7	8	1
Drafters	8	0	8	9	1
All Other Engineering & Related Technicians	13	0	14	15	2
Natural Scientists & Related Occupations	119	.2	126	139	29
Biological Scientists	59	.1	62	70	17
Medical Scientists	33	.1	35	39	8
Biological, Agri., & Food Techs., Exc. Health	8	0	9	9	1
Chemical Techs., Exc. Health	14	0	15	16	3
All Other Physical & Life Science Techs.	5	0	5	5	0
Computer, Math, Research, & Related Occupations	192	.4	204	223	39
Systems Analysts, Electronic Data Processing	132	.3	140	154	26
Computer Programmers	21	0	22	24	3
Computer Programmer Aides	39	.1	42	45	10
Social, Recreational, & Related Occupations	818	1.6	864	963	275
Psychologists	65	.1	69	76	15
Social Workers, Medical & Psychiatric	561	1.1	593	660	203
Social Workers, Exc. Medical & Psychiatric	65	.1	69	76	21
Social Service Technicians	77	.2	80	91	21
Clergy	50	.1	53	60	15
Teachers, Librarians, & Related Occupations	210	.4	220	243	58
Nursing Instructors	107	.2	113	124	26
Teachers & Instructors, Voc. Ed. & Training	39	.1	41	45	12
All Other Teachers & Instructors	40	.1	42	46	13
Librarians, Professional	15	0	15	17	4
Technical Assistants, Library	9	0	9	11	3

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PERCENT OF MAY 1986 EMPLOYMENT	ESTIMATED MAY 1987 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990
Health Practitioners, Techs., & Related	25,234	49.5	26,665	29,594	9,681
Physicians & Surgeons	1,025	2.0	1,087	1,195	295
Dentists	40	.1	41	46	7
Optometrists	11	0	11	13	2
Podiatrists	6	0	6	7	1
All Other Health Diagnosing & Treating Practitioners	2	0	2	2	0
Respiratory Therapists	610	1.2	644	718	209
Occupational Therapists	147	.3	155	173	49
Physical Therapists	308	.6	324	362	103
Corrective & Manual Arts Therapists	8	0	8	9	2
Speech Pathologists & Audiologists	101	.2	107	119	34
Recreational Therapists	71	.1	75	82	22
All Other Therapists	72	.1	76	84	23
Registered Nurses	14,444	28.3	15,282	16,939	5,777
Licensed Practical Nurses	2,434	4.8	2,568	2,852	1,054
Emergency Medical Technicians	172	3.4	181	202	55
Physician Assistants	48	.1	49	56	15
Opticians, Dispensing & Measuring	1	0	1	1	0
Pharmacists	576	1.1	606	678	205
Dietitians & Nutritionists	178	.3	187	209	65
Dietetic Technicians	199	.4	211	233	77
Medical & Clinical Laboratory Technologists	1,158	2.3	1,220	1,363	438
Medical & Clinical Laboratory Technicians	526	1.0	554	618	170
Dental Hygienists	19	0	21	24	7
Medical Records Technicians & Technologists	323	.6	339	378	147
Nuclear Medicine Technologists	105	.2	111	123	35
Radiologic Technologists	653	1.3	690	766	231
Radiologic Technicians	333	.7	350	390	112
Electroencephalograph Techs.	51	.1	54	60	16
Electrocardiograph Techs.	132	.3	139	155	41
Surgical Technicians	376	.7	396	442	119
All Other Health Professionals, Paraprofessionals, & Technicians	1,105	2.2	1,170	1,295	370
Writers, Artists, Athletes, & Related	69	.1	73	80	17
Public Rel. Specialists & Publicity Writers	54	.1	57	63	15
Photographers	15	0	16	17	2
All Other Professional, Paraprofessional, & Technical Workers	126	.2	134	147	33
SALES & RELATED OCCUPATIONS	171	.3	180	200	59
Cashiers	120	.2	126	141	46
All Other Sales & Related Workers	51	.1	54	59	13
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	9,895	19.4	10,441	11,574	3,725
General Office Occupations	7,960	15.6	8,402	9,332	3,159
First Line Supers.-Clerical & Admin. Support	480	.9	505	563	143
Adjustment Clerks	136	.3	142	160	52
Medical Secretaries	605	1.2	639	711	261
All Other Secretaries	786	1.5	833	917	333
Stenographers	36	.1	37	42	12
Receptionists & Information Clerks	212	.4	225	248	84
Typists	821	1.6	868	960	372
Typists, Word Processing Equipment	50	.1	53	58	14
Personnel Clerks, Exc. Payroll & Timekeeping	109	.2	115	129	49
File Clerks	118	.2	124	139	53
Order Clerks - Materials, Merch., & Service	27	.1	28	32	9
Procurement Clerks	63	.1	65	72	12
Statistical Clerks	515	1.0	541	607	207
Interviewing Clerks, Exc. Personnel & Welfare	677	1.3	715	795	231

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PERCENT OF MAY 1986 EMPLOYMENT	ESTIMATED MAY 1987 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990
Bookkeeping, Accounting, & Auditing Clerks	291	.6	306	341	109
Payroll & Timekeeping Clerks	65	.1	68	76	21
Billing, Cost & Rate Clerks	521	1.0	550	610	206
General Office Clerks	2,448	4.8	2,588	2,872	991
Office Machine Operators	429	.8	452	502	116
Billing, Posting, & Calculating Machine Opers.	3	0	3	3	0
Computer Operators, Exc. Peripheral Equipment	176	.3	186	205	46
Data Entry Keyers, Exc. Composing	235	.5	247	276	63
Switchboard Operators	332	.7	349	392	154
All Other Office Machine Operators	15	0	16	18	7
Material Distribution & Recording Occupations	890	1.7	940	1,043	242
Dispatchers - Police, Fire, & Ambulance	19	0	20	23	5
Stock Clerks - Stockroom, Warehouse, or Yard	565	1.1	596	662	151
Traffic, Shipping, & Receiving Clerks	42	.1	44	50	11
All Other Material Recording/Scheduling/Dist.	264	.5	280	308	75
All Other Clerical & Administrative Support Workers	284	.6	298	335	54
SERVICE OCCUPATIONS	9,149	18.0	9,642	10,745	3,468
Housekeepers	158	.3	165	187	51
All Other Service Supervisors & Managers	192	.4	202	225	69
Guards & Watch Guards	258	.5	272	303	53
Food & Beverage Preparation	1,981	3.9	2,086	2,332	657
Waiters & Waitresses	22	0	23	26	9
Food Servers, Outside	640	1.3	676	752	187
Dining Room/Cafeteria Attdts. & Bartdr. Helpers	22	0	23	27	5
Counter Attendants - Lunchroom, Coffee Shop, & Cafeteria	35	.1	37	41	13
Bakers, Bread & Pastry	13	0	13	15	4
Cooks, Institution or Cafeteria	389	.8	407	458	126
Cooks, Short Order	25	0	27	29	7
Food Preparation Workers	815	1.6	859	960	300
All Other Food Service Workers	20	0	21	24	6
Health Services & Related Occupations	4,465	8.8	4,708	5,236	1,739
Dental Assistants	67	.1	68	77	26
Medical Assistants	311	.6	330	362	123
Nursing Aides, Orderlies, & Attendants	2,624	5.1	2,764	3,082	1,064
Home Health Aides	154	.3	164	180	44
Psychiatric Aides	399	.8	423	467	159
Physical & Corrective Therapy Assists./Aides	262	.5	277	306	103
Occupational Therapy Assistants & Aides	44	.1	47	52	17
Ambulance Drivers & Attendants - Exc. Emergency Medical Technicians	34	.1	36	40	9
Pharmacy Assistants	336	.7	353	396	137
All Other Health Service Workers	234	.5	246	274	57
Cleaning & Building Services Occupations	2,028	4.0	2,138	2,384	874
Maids & Housekeeping Cleaners	1,838	3.6	1,939	2,159	812
Janitors & Cleaners, Exc. Maids & Housekeeping	177	.3	185	210	58
All Other Cleaning/Building Service, Exc. Private House	13	0	14	15	4
Personal Service Occupations	37	.1	39	43	14
Social Welfare Service Aides	19	0	20	22	6
Child Care Workers	18	0	19	21	8
All Other Service Workers	30	.1	32	35	11

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

STATEWIDE (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PERCENT OF MAY 1986 EMPLOYMENT	ESTIMATED MAY 1987 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	80	.2	84	92	22
First Line Supervisors - Agri., Forestry, & Rel.	6	0	6	7	1
Gardeners & Groundskeepers, Exc. Farm	74	.1	78	85	21
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	1,796	3.5	1,889	2,101	429
First Line Supervisors & Managers - Prod. & Rel.	156	.3	164	183	44
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	99	.2	104	117	28
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	57	.1	60	66	16
Mechanics, Installers, & Repairers	646	1.3	679	754	142
Machinery Maintenance Mechanics	66	.1	70	76	12
Maintenance Repairers, General Utility	359	.7	377	420	82
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	64	.1	68	75	14
Electromedical & Biomedical Equip. Repairers	125	.2	131	147	29
Menders - Garments, Linens, & Related	7	0	7	7	0
All Other Mechanics, Installers, & Repairers	25	0	26	29	5
Construction Trades & Extraction	281	.6	296	328	66
Carpenters	89	.2	94	103	21
Electricians	78	.2	83	91	18
Painters & Paperhangers - Construction & Maintenance	56	.1	59	65	14
Plumbers, Pipefitters, & Steamfitters	49	.1	51	58	11
All Other Construction & Extraction Workers, Exc. Helpers	9	0	9	11	2
Precision Production Occupations	53	.1	56	63	13
Machine Setters, Operatives, & Tenders	202	.4	211	235	52
Laundry/Drycleaning Mach. Opers., Exc. Pressing	168	.3	176	197	47
Pressing Machine Opers. - Textile & Garments	8	0	9	9	2
Boiler Operators & Tenders, Low Pressure	17	0	17	19	2
All Other Machine Setters & Set-Up Operators	3	0	3	3	0
All Other Machine Operators & Tenders	6	0	6	7	1
Hand Working, Inc. Assemblers & Fabricators	61	.1	65	71	16
Stationary Engineers	123	.2	130	144	33
Transportation, Material Moving Equipment	135	.3	142	160	28
Truck Drivers, Light - Incl. Delivery & Route	91	.2	96	108	19
All Other Motor Vehicle Operators	24	0	25	28	5
Parking Lot Attendants	13	0	14	15	2
All Other Transportation & Moving Equip. Operators	7	0	7	9	2
Helpers, Laborers, & Material Movers, Hand	139	.3	146	163	35
TOTAL ALL OCCUPATIONS	50,964	100.0	53,797	59,763	18,721

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

APACHE COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	25	28	4	3	1
Financial Managers	1	1	0	0	0
Purchasing Managers	1	1	0	0	0
Administrative Services Managers	2	2	0	0	0
Engineering, Mathematical & Natural Sciences Managers	1	1	0	0	0
Medicine & Health Services Managers	12	14	3	2	1
General Managers & Top Executives	6	7	1	1	0
All Other Managers & Administrators	2	2	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	427	500	147	73	74
Budget Analysts	3	4	1	1	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	2	2	0	0	0
Personnel, Training, & Labor Rel. Specialists	3	4	1	1	0
All Other Management Support Workers	6	7	1	1	0
Civil Engineers, Incl. Traffic	7	8	1	1	0
Civil Engineering Technicians & Technologists	2	2	0	0	0
Drafters	1	1	0	0	0
All Other Physical & Life Science Techs.	2	2	0	0	0
Social Workers, Medical & Psychiatric	3	4	1	1	0
Social Workers, Exc. Medical & Psychiatric	2	2	0	0	0
Social Service Technicians	1	1	0	0	0
Nursing Instructors	4	5	1	1	0
All Other Teachers & Instructors	2	2	0	0	0
Physicians & Surgeons	40	47	12	7	5
Dentists	6	7	1	1	0
Optometrists	3	4	1	1	0
Respiratory Therapists	2	2	0	0	0
Registered Nurses	184	215	72	31	41
Licensed Practical Nurses	41	48	17	7	10
Emergency Medical Technicians	7	8	2	1	1
Physician Assistants	9	11	4	2	2
Pharmacists	11	13	4	2	2
Dietitians & Nutritionists	4	5	1	1	0
Medical & Clinical Laboratory Technologists	18	21	6	3	3
Medical & Clinical Laboratory Technicians	18	21	5	3	2
Medical Records Technicians & Technologists	17	20	8	3	5
Nuclear Medicine Technologists	1	1	0	0	0
Radiologic Technologists	9	11	3	2	1
Radiologic Technicians	4	5	1	1	0
Surgical Technicians	2	2	0	0	0
All Other Health Professionals, Paraprofessionals, & Technicians	13	15	4	2	2
SALES & RELATED OCCUPATIONS	1	1	0	0	0
Cashiers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	163	198	55	30	25
First Line Supers.-Clerical & Admin. Support	3	4	1	1	0
Adjustment Clerks	3	4	1	1	0
Medical Secretaries	18	21	7	3	4
All Other Secretaries	7	8	2	1	1
Typists	13	15	5	2	3
Personnel Clerks, Exc. Payroll & Timekeeping	4	5	2	1	1
Procurement Clerks	5	6	1	1	0
Statistical Clerks	12	14	4	2	2
Interviewing Clerks, Exc. Personnel & Welfare	5	6	1	1	0
Bookkeeping, Accounting, & Auditing Clerks	9	11	3	2	1
Payroll & Timekeeping Clerks	3	4	1	1	0
Billing, Cost & Rate Clerks	2	2	0	0	0
General Office Clerks	48	56	19	8	11
Switchboard Operators	5	6	2	1	1

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

APACHE COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Dispatchers - Police, Fire, & Ambulance	5	6	1	1	0
Stock Clerks - Stockroom, Warehouse, or Yard	16	19	4	3	1
All Other Material Recording/Scheduling/Dist.	1	1	0	0	0
All Other Clerical & Administrative Support	4	5	1	1	0
SERVICE OCCUPATIONS	172	200	59	28	31
Housekeepers	3	4	1	1	0
All Other Service Supervisors & Managers	2	2	0	0	0
Guards & Watch Guards	14	16	2	2	0
Food Servers, Outside	3	4	1	1	0
Cooks, Institution or Cafeteria	20	23	6	3	3
Food Preparation Workers	10	12	3	2	1
Dental Assistants	14	16	6	2	4
Medical Assistants	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	59	69	23	10	13
Home Health Aides	1	1	0	0	0
Psychiatric Aides	5	6	2	1	1
Physical & Corrective Therapy Assists. & Aides	2	2	0	0	0
Pharmacy Assistants	6	7	2	1	1
Maids & Housekeeping Cleaners	32	37	13	5	8
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	2	2	0	0	0
Gardeners & Groundskeepers, Exc. Farm	2	2	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	71	84	14	13	1
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	5	6	1	1	0
Machinery Maintenance Mechanics	7	8	1	1	0
Maintenance Repairers, General Utility	10	12	2	2	0
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	2	2	0	0	0
Electromedical & Biomedical Equip. Repairers	5	6	1	1	0
Menders - Garments, Linens, & Related	1	1	0	0	0
Carpenters	7	8	1	1	0
Electricians	3	4	1	1	0
Painters & Paperhangers - Construction & Maintenance	1	1	0	0	0
Plumbers, Pipefitters, & Steamfitters	3	4	1	1	0
Truck Drivers, Light - Incl. Delivery & Route	15	18	3	3	0
Helpers, Laborers, & Material Movers, Hand	12	14	3	2	1
TOTAL ALL OCCUPATIONS	861	1,008	279	147	132

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCHISE COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	21	25	5	4	1
Financial Managers	4	5	1	1	0
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	3	4	1	1	0
Marketing, Advertising, & Public Rel. Mgrs.	1	1	0	0	0
Medicine & Health Services Managers	8	9	2	1	1
General Managers & Top Executives	4	5	1	1	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	387	454	140	67	73
Accountants & Auditors	3	4	1	1	0
Budget Analysts	1	1	0	0	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	4	5	1	1	0
All Other Management Support Workers	6	7	1	1	0
Computer Programmers	1	1	0	0	0
Social Workers, Exc. Medical & Psychiatric	3	4	1	1	0
Social Service Technicians	3	4	1	1	0
Nursing Instructors	1	1	0	0	0
Physicians & Surgeons	12	14	3	2	1
Respiratory Therapists	1	1	0	0	0
Physical Therapists	4	5	1	1	0
Recreational Therapists	6	7	2	1	1
Registered Nurses	185	216	72	31	41
Licensed Practical Nurses	71	83	30	12	18
Emergency Medical Technicians	7	8	2	1	1
Physician Assistants	2	2	0	0	0
Pharmacists	9	11	3	2	1
Dietitians & Nutritionists	1	1	0	0	0
Dietetic Technicians	1	1	0	0	0
Medical & Clinical Laboratory Technologists	23	27	8	4	4
Medical & Clinical Laboratory Technicians	9	11	3	2	1
Medical Records Technicians & Technologists	5	6	2	1	1
Radiologic Technologists	16	19	6	3	3
Radiologic Technicians	3	4	1	1	0
Electrocardiograph Techs.	1	1	0	0	0
Surgical Technicians	8	9	2	1	1
All Other Health Professionals, Paraprofessionals, & Technicians	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	161	189	55	28	27
First Line Supers.-Clerical & Admin. Support	9	11	3	2	1
Adjustment Clerks	3	4	1	1	0
Medical Secretaries	19	22	8	3	5
All Other Secretaries	1	1	0	0	0
Stenographers	1	1	0	0	0
Typists	13	15	5	2	3
Personnel Clerks, Exc. Payroll & Timekeeping	1	1	0	0	0
Procurement Clerks	7	8	1	1	0
Statistical Clerks	24	28	9	4	5
Interviewing Clerks, Exc. Personnel & Welfare	16	19	5	3	2
Bookkeeping, Accounting, & Auditing Clerks	10	12	4	2	2
Billing, Cost & Rate Clerks	14	16	5	2	3
General Office Clerks	22	26	9	4	5
Data Entry Keyers, Exc. Composing	7	8	1	1	0
Stock Clerks - Stockroom, Warehouse, or Yard	10	12	3	2	1
All Other Clerical & Administrative Support	4	5	1	1	0
SERVICE OCCUPATIONS	225	264	83	39	44
Housekeepers	7	8	2	1	1
All Other Service Supervisors & Managers	6	7	2	1	1
Food Servers, Outside	3	4	1	1	0
Cooks, Institution or Cafeteria	21	25	7	4	3
Food Preparation Workers	25	29	8	4	4

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCHISE COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Dental Assistants	1	1	0	0	0
Medical Assistants	4	5	1	1	0
Nursing Aides, Orderlies, & Attendants	107	125	42	18	24
Home Health Aides	3	4	1	1	0
Physical & Corrective Therapy Assists./Aides	2	2	0	0	0
Pharmacy Assistants	9	11	4	2	2
All Other Health Service Workers	2	2	0	0	0
Maids & Housekeeping Cleaners	35	41	15	6	9
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	27	32	6	5	1
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	3	4	1	1	0
Machinery Maintenance Mechanics	1	1	0	0	0
Maintenance Repairers, General Utility	15	18	4	3	1
Electromedical & Biomedical Equip. Repairers	4	5	1	1	0
Truck Drivers, Light - Incl. Delivery & Route	2	2	0	0	0
Helpers, Laborers, & Material Movers, Hand	2	2	0	0	0
TOTAL ALL OCCUPATIONS	821	964	289	143	146

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCONINO COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	28	33	6	5	1
Financial Managers	4	5	1	1	0
Personnel, Training, & Labor Relations Mgrs.	3	4	1	1	0
Marketing, Advertising, & Public Rel. Mgrs.	1	1	0	0	0
Administrative Services Managers	2	2	0	0	0
Engineering, Mathematical & Natural Sciences Managers	2	2	0	0	0
Medicine & Health Services Managers	10	12	3	2	1
General Managers & Top Executives	4	5	1	1	0
All Other Managers & Administrators	2	2	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	519	607	182	88	94
Accountants & Auditors	3	4	1	1	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	1	1	0	0	0
Personnel, Training, & Labor Rel. Specialists	2	2	0	0	0
Compliance & Enforcement Inspectors, Exc. Const.	4	5	1	1	0
All Other Management Support Workers	2	2	0	0	0
Civil Engineers, Incl. Traffic	7	8	1	1	0
Civil Engineering Technicians & Technologists	2	2	0	0	0
Medical Scientists	1	1	0	0	0
All Other Physical & Life Science Techs.	2	2	0	0	0
Social Workers, Medical & Psychiatric	3	4	1	1	0
Social Service Technicians	3	4	1	1	0
Nursing Instructors	1	1	0	0	0
Physicians & Surgeons	20	23	5	3	2
Dentists	5	6	1	1	0
Optometrists	2	2	0	0	0
Physical Therapists	12	14	4	2	2
Speech Pathologists & Audiologists	1	1	0	0	0
Registered Nurses	280	327	110	47	63
Licensed Practical Nurses	40	47	17	7	10
Emergency Medical Technicians	6	7	1	1	0
Physician Assistants	7	8	2	1	1
Opticians, Dispensing & Measuring	1	1	0	0	0
Pharmacists	11	13	4	2	2
Dietitians & Nutritionists	4	5	1	1	0
Medical & Clinical Laboratory Technologists	9	11	3	2	1
Medical & Clinical Laboratory Technicians	21	25	7	4	3
Medical Records Technicians & Technologists	16	19	7	3	4
Radiologic Technologists	8	9	2	1	1
Radiologic Technicians	10	12	3	2	1
Surgical Technicians	4	5	1	1	0
All Other Health Professionals, Paraprofessionals, & Technicians	30	35	9	5	4
All Other Professional, Paraprofessional, & Technical Workers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	191	224	63	33	30
First Line Supers.-Clerical & Admin. Support	5	6	1	1	0
Adjustment Clerks	11	13	4	2	2
Medical Secretaries	22	26	9	4	5
All Other Secretaries	12	14	5	2	3
Stenographers	10	12	4	2	2
Typists	7	8	3	1	2
Personnel Clerks, Exc. Payroll & Timekeeping	1	1	0	0	0
Procurement Clerks	1	1	0	0	0
Statistical Clerks	5	6	2	1	1
Interviewing Clerks, Exc. Personnel & Welfare	14	16	4	2	2
Bookkeeping, Accounting, & Auditing Clerks	5	6	2	1	1
Payroll & Timekeeping Clerks	3	4	1	1	0
Billing, Cost & Rate Clerks	9	11	4	2	2
General Office Clerks	30	35	11	5	6

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

COCONINO COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Computer Operators, Exc. Peripheral Equipment	1	1	0	0	0
Data Entry Keyers, Exc. Composing	5	6	1	1	0
Switchboard Operators	11	13	5	2	3
Stock Clerks - Stockroom, Warehouse, or Yard	17	20	4	3	1
All Other Material Recording/Scheduling/Dist.	2	2	0	0	0
All Other Clerical & Administrative Support	20	23	3	3	0
SERVICES OCCUPATIONS	195	229	72	34	38
Housekeepers	5	6	1	1	0
All Other Service Supervisors & Managers	7	8	2	1	1
Guards & Watch Guards	3	4	1	1	0
Food Servers, Outside	6	7	1	1	0
Cooks, Institution or Cafeteria	11	13	3	2	1
Food Preparation Workers	17	20	6	3	3
Dental Assistants	10	12	5	2	3
Medical Assistants	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	88	103	35	15	20
Physical & Corrective Therapy Assists./Aides	11	13	4	2	2
Pharmacy Assistants	3	4	1	1	0
All Other Health Service Workers	2	2	0	0	0
Maids & Housekeeping Cleaners	31	36	13	5	8
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	34	40	6	6	0
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	3	4	1	1	0
Machinery Maintenance Mechanics	4	5	1	1	0
Maintenance Repairers, General Utility	11	13	2	2	0
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	3	4	1	1	0
Electromedical & Biomedical Equip. Repairers	1	1	0	0	0
Menders - Garments, Linens, & Related	1	1	0	0	0
Carpenters	1	1	0	0	0
Electricians	2	2	0	0	0
Painters & Paperhangers - Construction & Maintenance	1	1	0	0	0
Plumbers, Pipefitters, & Steamfitters	1	1	0	0	0
Laundry/Drycleaning Mach. Opers., Exc. Pressing	2	2	0	0	0
Truck Drivers, Light - Incl. Delivery & Route	4	5	1	1	0
TOTAL ALL OCCUPATIONS	967	1,133	329	166	163

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GILA COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	24	27	5	3	2
Financial Managers	2	2	0	0	0
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	2	2	0	0	0
Administrative Services Managers	1	1	0	0	0
Medicine & Health Services Managers	14	16	4	2	2
Food Service & Lodging Managers	3	4	1	1	0
General Managers & Top Executives	1	1	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	232	269	80	37	43
Purchasing Agents, Exc. Wholesale, Retail, & Farm	1	1	0	0	0
Personnel, Training, & Labor Rel. Specialists	1	1	0	0	0
All Other Management Support Workers	1	1	0	0	0
Psychologists	1	1	0	0	0
Social Workers, Medical & Psychiatric	1	1	0	0	0
Social Service Technicians	2	2	0	0	0
All Other Teachers & Instructors	2	2	0	0	0
Physicians & Surgeons	8	9	2	1	1
Dentists	2	2	0	0	0
Respiratory Therapists	6	7	2	1	1
Physical Therapists	3	4	1	1	0
Registered Nurses	114	133	44	19	25
Licensed Practical Nurses	35	41	15	6	9
Physician Assistants	1	1	0	0	0
Pharmacists	9	11	3	2	1
Dietitians & Nutritionists	1	1	0	0	0
Dietetic Technicians	6	7	2	1	1
Medical & Clinical Laboratory Technologists	6	7	2	1	1
Medical & Clinical Laboratory Technicians	13	15	4	2	2
Dental Hygienists	3	4	1	1	0
Medical Records Technicians & Technologists	5	6	2	1	1
Radiologic Technicians	7	8	2	1	1
Surgical Technicians	2	2	0	0	0
All Other Health Professionals, Paraprofessionals, & Technicians	1	1	0	0	0
Public Rel. Specialists & Publicity Writers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	84	99	24	15	9
First Line Supers.-Clerical & Admin. Support	4	5	1	1	0
Adjustment Clerks	1	1	0	0	0
Medical Secretaries	1	1	0	0	0
All Other Secretaries	2	2	0	0	0
Stenographers	1	1	0	0	0
Typists	3	4	1	1	0
Procurement Clerks	1	1	0	0	0
Statistical Clerks	6	7	2	1	1
Interviewing Clerks, Exc. Personnel & Welfare	9	11	3	2	1
Bookkeeping, Accounting, & Auditing Clerks	5	6	2	1	1
Payroll & Timekeeping Clerks	1	1	0	0	0
Billing, Cost & Rate Clerks	16	19	6	3	3
General Office Clerks	12	14	4	2	2
Data Entry Keyers, Exc. Composing	3	4	1	1	0
Switchboard Operators	6	7	2	1	1
Stock Clerks - Stockroom, Warehouse, or Yard	8	9	1	1	0
All Other Clerical & Administrative Support	5	6	1	1	0
SERVICE OCCUPATIONS	158	185	56	27	29
Housekeepers	3	4	1	1	0
All Other Service Supervisors & Managers	2	2	0	0	0
Food Servers, Outside	13	15	3	2	1
Cooks, Institution or Cafeteria	13	15	4	2	2

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GILA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Food Preparation Workers	3	4	1	1	0
Dental Assistants	1	1	0	0	0
Medical Assistants	2	2	0	0	0
Nursing Aides, Orderlies, & Attendants	85	99	33	14	19
Physical & Corrective Therapy Assists./Aides	3	4	1	1	0
Pharmacy Assistants	5	6	2	1	1
Maids & Housekeeping Cleaners	24	28	10	4	6
Janitors & Cleaners, Exc. Maids & Housekeeping	4	5	1	1	0
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	27	32	6	5	1
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	3	4	1	1	0
Machinery Maintenance Mechanics	1	1	0	0	0
Maintenance Repairers, General Utility	16	19	4	3	1
Laundry/Drycleaning Mach. Opers., Exc. Pressing	6	7	1	1	0
All Other Motor Vehicle Operators	1	1	0	0	0
TOTAL ALL OCCUPATIONS	526	613	171	87	84

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GRAHAM COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	3	3	0	0	0
Financial Managers	1	1	0	0	0
Medicine & Health Services Managers	2	2	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	80	93	25	13	12
Purchasing Agents, Exc. Wholesale, Retail, & Farm	1	1	0	0	0
Personnel, Training, & Labor Rel. Specialists	1	1	0	0	0
All Other Management Support Workers	1	1	0	0	0
Registered Nurses	45	53	18	8	10
Licensed Practical Nurses	7	8	2	1	1
Emergency Medical Technicians	4	5	1	1	0
Physician Assistants	1	1	0	0	0
Pharmacists	1	1	0	0	0
Dietitians & Nutritionists	1	1	0	0	0
Medical & Clinical Laboratory Technologists	6	7	2	1	1
Medical & Clinical Laboratory Technicians	3	4	1	1	0
Medical Records Technicians & Technologists	2	2	0	0	0
Radiologic Technologists	2	2	0	0	0
Radiologic Technicians	5	6	1	1	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	31	35	6	4	2
First Line Supers.-Clerical & Admin. Support	2	2	0	0	0
Adjustment Clerks	1	1	0	0	0
Medical Secretaries	2	2	0	0	0
Typists, Word Processing Equipment	1	1	0	0	0
File Clerks	3	4	1	1	0
Procurement Clerks	1	1	0	0	0
Statistical Clerks	2	2	0	0	0
Interviewing Clerks, Exc. Personnel & Welfare	3	4	1	1	0
Bookkeeping, Accounting, & Auditing Clerks	2	2	0	0	0
Payroll & Timekeeping Clerks	1	1	0	0	0
General Office Clerks	10	12	4	2	2
Data Entry Keyers, Exc. Composing	1	1	0	0	0
Switchboard Operators	2	2	0	0	0
SERVICE OCCUPATIONS	50	58	17	8	9
Housekeepers	1	1	0	0	0
Food Servers, Outside	2	2	0	0	0
Cooks, Institution or Cafeteria	3	4	1	1	0
Food Preparation Workers	3	4	1	1	0
Nursing Aides, Orderlies, & Attendants	26	30	10	4	6
Pharmacy Assistants	2	2	0	0	0
Maids & Housekeeping Cleaners	13	15	5	2	3
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	2	2	0	0	0
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	1	1	0	0	0
Maintenance Repairers, General Utility	1	1	0	0	0
TOTAL ALL OCCUPATIONS	166	191	48	25	23

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

GREENLEE COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	2	2	0	0	0
Medicine & Health Services Managers	1	1	0	0	0
General Managers & Top Executives	1	1	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	22	25	6	3	3
Respiratory Therapists	1	1	0	0	0
Registered Nurses	15	18	6	3	3
Medical & Clinical Laboratory Technologists	1	1	0	0	0
Medical Records Technicians & Technologists	1	1	0	0	0
Radiologic Technologists	2	2	0	0	0
Radiologic Technicians	1	1	0	0	0
All Other Health Professionals, Paraprofessionals, & Technicians	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	11	12	2	1	1
First Line Supers.-Clerical & Admin. Support	1	1	0	0	0
Billing, Cost & Rate Clerks	2	2	0	0	0
General Office Clerks	8	9	2	1	1
SERVICE OCCUPATIONS	20	23	5	3	2
Housekeepers	1	1	0	0	0
All Other Service Supervisors & Managers	1	1	0	0	0
Food Servers, Outside	4	5	1	1	0
Cooks, Institution or Cafeteria	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	7	8	2	1	1
Occupational Therapy Assistants & Aides	1	1	0	0	0
Pharmacy Assistants	1	1	0	0	0
Maids & Housekeeping Cleaners	4	5	2	1	1
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	1	1	0	0	0
Maintenance Repairers, General Utility	1	1	0	0	0
TOTAL ALL OCCUPATIONS	57	64	13	7	6

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

LA PAZ COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	7	8	1	1	0
Financial Managers	1	1	0	0	0
Administrative Services Managers	1	1	0	0	0
Medicine & Health Services Managers	3	4	1	1	0
General Managers & Top Executives	2	2	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	70	81	19	11	8
All Other Financial Specialists	3	4	1	1	0
Social Workers, Medical & Psychiatric	1	1	0	0	0
Nursing Instructors	1	1	0	0	0
Physicians & Surgeons	4	5	1	1	0
Dentists	1	1	0	0	0
Respiratory Therapists	2	2	0	0	0
Physical Therapists	1	1	0	0	0
Registered Nurses	29	34	11	5	6
Licensed Practical Nurses	11	13	4	2	2
Pharmacists	1	1	0	0	0
Dietitians & Nutritionists	1	1	0	0	0
Dietetic Technicians	2	2	0	0	0
Medical & Clinical Laboratory Technologists	3	4	1	1	0
Medical & Clinical Laboratory Technicians	2	2	0	0	0
Medical Records Technicians & Technologists	2	2	0	0	0
Radiologic Technicians	5	6	1	1	0
Surgical Technicians	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	22	25	4	3	1
First Line Supers.-Clerical & Admin. Support	1	1	0	0	0
All Other Secretaries	2	2	0	0	0
Typists	2	2	0	0	0
Personnel Clerks, Exc. Payroll & Timekeeping	1	1	0	0	0
Interviewing Clerks, Exc. Personnel & Welfare	1	1	0	0	0
Bookkeeping, Accounting, & Auditing Clerks	6	7	2	1	1
Billing, Cost & Rate Clerks	1	1	0	0	0
Computer Operators, Exc. Peripheral Equipment	1	1	0	0	0
Data Entry Keyers, Exc. Composing	1	1	0	0	0
Switchboard Operators	3	4	1	1	0
All Other Material Recording/Scheduling/Dist.	3	4	1	1	0
SERVICE OCCUPATIONS	36	42	10	6	4
Cooks, Institution or Cafeteria	3	4	1	1	0
Food Preparation Workers	3	4	1	1	0
All Other Food Service Workers	2	2	0	0	0
Dental Assistants	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	17	20	6	3	3
Physical & Corrective Therapy Assists./Aides	1	1	0	0	0
Maids & Housekeeping Cleaners	7	8	2	1	1
Janitors & Cleaners, Exc. Maids & Housekeeping	2	2	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	8	9	1	1	0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	1	1	0	0	0
Maintenance Repairers, General Utility	5	6	1	1	0
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	1	1	0	0	0
All Other Motor Vehicle Operators	1	1	0	0	0
TOTAL ALL OCCUPATIONS	143	165	35	22	13

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	1,332	1,550	407	218	189
Financial Managers	91	106	29	15	14
Personnel, Training, & Labor Relations Mgrs.	68	79	21	11	10
Purchasing Managers	18	21	4	3	1
Marketing, Advertising, & Public Rel. Mgrs.	52	61	15	9	6
Administrative Services Managers	47	55	14	8	6
Engineering, Mathematical & Natural Sciences Managers	64	74	18	10	8
Medicine & Health Services Managers	649	755	207	106	101
Food Service & Lodging Managers	38	44	11	6	5
General Managers & Top Executives	129	150	37	21	16
All Other Managers & Administrators	176	205	51	29	22
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	18,310	21,310	6,753	3,000	3,753
Accountants & Auditors	87	101	26	14	12
Budget Analysts	14	16	3	2	1
All Other Financial Specialists	25	29	7	4	3
Purchasing Agents, Exc. Wholesale, Retail, & Farm	91	106	25	15	10
Personnel, Training, & Labor Rel. Specialists	108	126	29	18	11
Compliance & Enforcement Inspectors, Exc. Const.	9	10	2	1	1
All Other Management Support Workers	287	334	83	47	36
Civil Engineers, Incl. Traffic	1	1	0	0	0
Electrical & Electronic Engineers	4	5	1	1	0
Mechanical Engineers	12	14	2	2	0
All Other Engineers	15	17	2	2	0
Civil Engineering Technicians & Technologists	1	1	0	0	0
Electrical/Electronic Engineering Technicians	24	28	5	4	1
Mechanical Engineering Techs.	4	5	1	1	0
Drafters	5	6	1	1	0
All Other Engineering & Related Technicians	9	10	1	1	0
Biological Scientists	46	54	13	8	5
Medical Scientists	23	27	6	4	2
Biological, Agri., & Food Techs., Exc. Health	8	9	1	1	0
Chemical Techs., Exc. Health	14	16	3	2	1
All Other Physical & Life Science Techs.	1	1	0	0	0
Systems Analysts, Electronic Data Processing	93	108	18	15	3
Computer Programmers	12	14	2	2	0
Computer Programmer Aides	38	44	10	6	4
Psychologists	45	52	10	7	3
Social Workers, Medical & Psychiatric	360	419	129	59	70
Social Workers, Exc. Medical & Psychiatric	46	54	16	8	8
Social Service Technicians	45	52	12	7	5
Clergy	30	35	9	5	4
Nursing Instructors	70	81	18	11	7
Teachers & Instructors, Voc. Ed. & Training	36	42	12	6	6
All Other Teachers & Instructors	21	24	7	3	4
Librarians, Professional	7	8	2	1	1
Technical Assistants, Library	5	6	2	1	1
Physicians & Surgeons	858	999	250	141	109
Dentists	15	17	3	2	1
Optometrists	5	6	1	1	0
Podiatrists	3	3	0	0	0
All Other Health Diagnosing & Treating Practitioners	1	1	0	0	0
Respiratory Therapists	334	389	112	55	57
Occupational Therapists	113	132	38	19	19
Physical Therapists	187	218	62	31	31
Corrective & Manual Arts Therapists	7	8	2	1	1
Speech Pathologists & Audiologists	66	77	22	11	11
Recreational Therapists	50	58	16	8	8
All Other Therapists	64	74	20	10	10

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Registered Nurses	9,560	11,128	3,748	1,568	2,180
Licensed Practical Nurses	1,513	1,761	649	248	401
Emergency Medical Technicians	115	134	38	19	19
Physician Assistants	11	13	4	2	2
Pharmacists	337	392	118	55	63
Dietitians & Nutritionists	110	128	43	18	25
Dietetic Technicians	147	171	58	24	34
Medical & Clinical Laboratory Technologists	656	764	244	108	136
Medical & Clinical Laboratory Technicians	325	378	104	53	51
Dental Hygienists	10	12	4	2	2
Medical Records Technicians & Technologists	184	214	85	30	55
Nuclear Medicine Technologists	73	85	25	12	13
Radiologic Technologists	431	502	152	71	81
Radiologic Technicians	248	289	87	41	46
Electroencephalograph Techs.	34	40	11	6	5
Electrocardiograph Techs.	82	95	25	13	12
Surgical Technicians	240	279	76	39	37
All Other Health Professionals, Paraprofessionals, & Technicians	785	914	259	129	130
Public Rel. Specialists & Publicity Writers	41	48	12	7	5
Photographers	9	10	1	1	0
All Other Professional, Paraprofessional, & Technical Workers	100	116	26	16	10
SALES & RELATED OCCUPATIONS	128	149	44	21	23
Cashiers	83	97	32	14	18
All Other Sales & Related Workers	45	52	12	7	5
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	6,395	7,444	2,424	1,049	1,375
First Line Supers.-Clerical & Admin. Support	299	348	90	49	41
Adjustment Clerks	82	95	32	13	19
Medical Secretaries	337	392	144	55	89
All Other Secretaries	647	753	277	106	171
Stenographers	20	23	7	3	4
Receptionists & Information Clerks	178	207	70	29	41
Typists	570	663	259	93	166
Typists, Word Processing Equipment	43	50	13	7	6
Personnel Clerks, Exc. Payroll & Timekeeping	60	70	28	10	18
File Clerks	83	97	39	14	25
Order Clerks - Materials, Merch., & Service	17	20	6	3	3
Procurement Clerks	31	36	8	5	3
Statistical Clerks	242	282	96	40	56
Interviewing Clerks, Exc. Personnel & Welfare	418	487	143	69	74
Bookkeeping, Accounting, & Auditing Clerks	176	205	67	29	38
Payroll & Timekeeping Clerks	35	41	13	6	7
Billing, Cost & Rate Clerks	321	374	128	53	75
General Office Clerks	1,613	1,878	644	265	379
Billing, Posting, & Calculating Machine Opers.	3	3	0	0	0
Computer Operators, Exc. Peripheral Equipment	141	164	38	23	15
Data Entry Keyers, Exc. Composing	147	171	40	24	16
All Other Office Machine Operators	11	13	5	2	3
Switchboard Operators	176	205	82	29	53
Stock Clerks - Stockroom, Warehouse, or Yard	367	427	99	60	39
Traffic, Shipping, & Receiving Clerks	29	34	8	5	3
All Other Material Recording/Scheduling/Dist.	232	270	67	38	29
All Other Clerical & Administrative Support	117	136	21	19	2
SERVICE OCCUPATIONS	5,431	6,325	2,042	894	1,148
Housekeepers	83	97	28	14	14
All Other Service Supervisors & Managers	106	123	40	17	23
Guards & Watch Guards	180	210	37	30	7
Waiters & Waitresses	22	26	9	4	5
Food Servers, Outside	421	490	122	69	53

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MARICOPA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Counter Attendants - Lunchroom, Coffee Shop, & Cafeteria	28	33	11	5	6
Bakers, Bread & Pastry	7	8	2	1	1
Cooks, Institution or Cafeteria	187	218	61	31	30
Cooks, Short Order	23	27	7	4	3
Food Preparation Workers	462	538	167	76	91
All Other Food Service Workers	11	13	4	2	2
Dental Assistants	22	26	10	4	6
Medical Assistants	277	322	112	45	67
Nursing Aides, Orderlies, & Attendants	1,340	1,560	534	220	314
Home Health Aides	130	151	38	21	17
Psychiatric Aides	322	375	128	53	75
Physical & Corrective Therapy Assists./Aides	200	233	81	33	48
Occupational Therapy Assistants & Aides	28	33	11	5	6
Ambulance Drivers & Attendants - Exc. Emergency Medical Technicians	34	40	9	6	3
Pharmacy Assistants	201	234	82	33	49
All Other Health Service Workers	118	137	29	19	10
Maids & Housekeeping Cleaners	1,067	1,242	464	175	289
Janitors & Cleaners, Exc. Maids & Housekeeping	83	97	27	14	13
All Other Cleaning/Building Service, Exc. Private House	13	15	4	2	2
Social Welfare Service Aides	19	22	6	3	3
Child Care Workers	18	21	8	3	5
All Other Service Workers	29	34	11	5	6
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	49	57	15	8	7
First Line Supervisors - Agri., Forestry, & Rel.	6	7	1	1	0
Gardeners & Groundskeepers, Exc. Farm	43	50	14	7	7
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	1,070	1,241	260	171	89
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	56	65	16	9	7
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	39	45	12	6	6
Machinery Maintenance Mechanics	39	45	8	6	2
Maintenance Repairers, General Utility	198	230	46	32	14
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	40	47	9	7	2
Electromedical & Biomedical Equip. Repairers	64	74	14	10	4
Menders - Garments, Linens, & Related	2	2	0	0	0
All Other Mechanics, Installers, & Repairers	19	22	4	3	1
Carpenters	63	73	16	10	6
Electricians	57	66	13	9	4
Painters & Paperhangers - Construction & Maintenance	37	43	10	6	4
Plumbers, Pipefitters, & Steamfitters	35	41	8	6	2
All Other Construction & Extraction Workers, Exc. Helpers	5	6	1	1	0
Precision Production Occupations	25	29	5	4	1
Laundry/Drycleaning Mach. Opers., Exc. Pressing	92	107	26	15	11
Pressing Machine Opers. - Textile & Garments	8	9	2	1	1
Boiler Operators & Tenders, Low Pressure	3	3	0	0	0
All Other Machine Setters & Set-Up Operators	3	3	0	0	0
All Other Machine Operators & Tenders	4	5	1	1	0
Hand Working, Inc. Assemblers & Fabricators	56	65	15	9	6
Stationary Engineers	88	102	23	14	9
Truck Drivers, Light - Incl. Delivery & Route	45	52	9	7	2
Parking Lot Attendants	9	10	1	1	0
All Other Transportation & Moving Equip. Operators	4	5	1	1	0
Helpers, Laborers, & Material Movers, Hand	79	92	20	13	7
TOTAL ALL OCCUPATIONS	32,715	38,076	11,945	5,361	6,584

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MOHAVE COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	41	48	9	7	2
Financial Managers	3	4	1	1	0
Personnel, Training, & Labor Relations Mgrs.	3	4	1	1	0
Purchasing Managers	2	2	0	0	0
Marketing, Advertising, & Public Rel. Mgrs.	2	2	0	0	0
Administrative Services Managers	1	1	0	0	0
Engineering, Mathematical & Natural Sciences Managers	3	4	1	1	0
Medicine & Health Services Managers	19	22	5	3	2
Food Service & Lodging Managers	2	2	0	0	0
General Managers & Top Executives	5	6	1	1	0
All Other Managers & Administrators	1	1	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	359	418	131	59	72
Personnel, Training, & Labor Rel. Specialists	3	4	1	1	0
All Other Management Support Workers	2	2	0	0	0
Civil Engineers, Incl. Traffic	1	1	0	0	0
Civil Engineering Technicians & Technologists	1	1	0	0	0
Medical Scientists	1	1	0	0	0
Social Workers, Medical & Psychiatric	2	2	0	0	0
Nursing Instructors	2	2	0	0	0
Physicians & Surgeons	2	2	0	0	0
Respiratory Therapists	18	21	6	3	3
Occupational Therapists	1	1	0	0	0
Physical Therapists	2	2	0	0	0
Speech Pathologists & Audiologists	1	1	0	0	0
Registered Nurses	206	240	80	34	46
Licensed Practical Nurses	59	69	25	10	15
Emergency Medical Technicians	4	5	1	1	0
Physician Assistants	1	1	0	0	0
Pharmacists	3	4	1	1	0
Dietitians & Nutritionists	3	4	1	1	0
Medical & Clinical Laboratory Technologists	13	15	4	2	2
Medical & Clinical Laboratory Technicians	7	8	2	1	1
Medical Records Technicians & Technologists	10	12	5	2	3
Radiologic Technologists	1	1	0	0	0
Radiologic Technicians	11	13	4	2	2
Surgical Technicians	4	5	1	1	0
Public Rel. Specialists & Publicity Writers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	154	181	51	27	24
First Line Supers.-Clerical & Admin. Support	10	12	3	2	1
Medical Secretaries	5	6	2	1	1
All Other Secretaries	8	9	3	1	2
Typists	18	21	8	3	5
Personnel Clerks, Exc. Payroll & Timekeeping	1	1	0	0	0
File Clerks	4	5	2	1	1
Procurement Clerks	1	1	0	0	0
Statistical Clerks	6	7	2	1	1
Interviewing Clerks, Exc. Personnel & Welfare	11	13	3	2	1
Bookkeeping, Accounting, & Auditing Clerks	1	1	0	0	0
Payroll & Timekeeping Clerks	1	1	0	0	0
Billing, Cost & Rate Clerks	21	25	8	4	4
General Office Clerks	33	39	13	6	7
Computer Operators, Exc. Peripheral Equipment	2	2	0	0	0
Data Entry Keyers, Exc. Composing	9	11	3	2	1
Switchboard Operators	2	2	0	0	0
Stock Clerks - Stockroom, Warehouse, or Yard	7	8	1	1	0
Traffic, Shipping, & Receiving Clerks	3	4	1	1	0
All Other Material Recording/Scheduling/Dist.	1	1	0	0	0
All Other Clerical & Administrative Support	10	12	2	2	0

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

MOHAVE COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
SERVICE OCCUPATIONS	149	175	51	26	25
Housekeepers	4	5	1	1	0
All Other Service Supervisors & Managers	4	5	1	1	0
Food Servers, Outside	13	15	3	2	1
Cooks, Institution or Cafeteria	12	14	3	2	1
Food Preparation Workers	15	18	6	3	3
Medical Assistants	2	2	0	0	0
Nursing Aides, Orderlies, & Attendants	39	46	16	7	9
Home Health Aides	5	6	1	1	0
Psychiatric Aides	2	2	0	0	0
Physical & Corrective Therapy Assists./Aides	1	1	0	0	0
Pharmacy Assistants	9	11	4	2	2
All Other Health Service Workers	5	6	1	1	0
Maids & Housekeeping Cleaners	31	36	13	5	8
Janitors & Cleaners, Exc. Maids & Housekeeping	7	8	2	1	1
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	28	32	5	4	1
Machinery Maintenance Mechanics	1	1	0	0	0
Maintenance Repairers, General Utility	8	9	1	1	0
Precision Production Occupations	1	1	0	0	0
Laundry/Drycleaning Mach. Opers., Exc. Pressing	12	14	3	2	1
Stationary Engineers	6	7	1	1	0
TOTAL ALL OCCUPATIONS	732	855	247	123	124

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

NAVAJO COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOb OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	32	38	9	6	3
Financial Managers	1	1	0	0	0
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	1	1	0	0	0
Administrative Services Managers	3	4	1	1	0
Medicine & Health Services Managers	21	25	7	4	3
Food Service & Lodging Managers	1	1	0	0	0
General Managers & Top Executives	4	5	1	1	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	284	332	100	48	52
Accountants & Auditors	1	1	0	0	0
Budget Analysts	1	1	0	0	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	2	2	0	0	0
All Other Management Support Workers	2	2	0	0	0
Psychologists	1	1	0	0	0
Social Workers, Medical & Psychiatric	5	6	1	1	0
Social Service Technicians	3	4	1	1	0
Nursing Instructors	1	1	0	0	0
Teachers & Instructors, Voc. Ed. & Training	1	1	0	0	0
Respiratory Therapists	1	1	0	0	0
Physical Therapists	2	2	0	0	0
Registered Nurses	140	163	54	23	31
Licensed Practical Nurses	40	47	17	7	10
Physician Assistants	3	4	1	1	0
Pharmacists	13	15	4	2	2
Dietitians & Nutritionists	6	7	2	1	1
Dietetic Technicians	1	1	0	0	0
Medical & Clinical Laboratory Technologists	13	15	4	2	2
Medical & Clinical Laboratory Technicians	15	18	5	3	2
Dental Hygienists	3	4	1	1	0
Medical Records Technicians & Technologists	10	12	5	2	3
Radiologic Technologists	6	7	2	1	1
Radiologic Technicians	5	6	1	1	0
Surgical Technicians	6	7	1	1	0
All Other Health Professionals, Paraprofessionals, & Technicians	3	4	1	1	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	105	122	29	17	12
First Line Supers.-Clerical & Admin. Support	2	2	0	0	0
Adjustment Clerks	1	1	0	0	0
Medical Secretaries	2	2	0	0	0
All Other Secretaries	11	13	4	2	2
Typists	7	8	3	1	2
File Clerks	1	1	0	0	0
Order Clerks - Materials, Merch., & Service	3	4	1	1	0
Procurement Clerks	1	1	0	0	0
Statistical Clerks	5	6	2	1	1
Interviewing Clerks, Exc. Personnel & Welfare	16	19	5	3	2
Bookkeeping, Accounting, & Auditing Clerks	6	7	2	1	1
Billing, Cost & Rate Clerks	7	8	2	1	1
General Office Clerks	12	14	4	2	2
Computer Operators, Exc. Peripheral Equipment	1	1	0	0	0
Data Entry Keyers, Exc. Composing	1	1	0	0	0
Switchboard Operators	4	5	2	1	1
Stock Clerks - Stockroom, Warehouse, or Yard	8	9	1	1	0
All Other Clerical & Administrative Support	17	20	3	3	0
SERVICE OCCUPATIONS	119	139	41	20	21
Housekeepers	1	1	0	0	0
All Other Service Supervisors & Managers	1	1	0	0	0
Food Servers, Outside	6	7	1	1	0
Cooks, Institution or Cafeteria	13	15	4	2	2

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

NAVAJO COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Cooks, Short Order	2	2	0	0	0
Food Preparation Workers	9	11	3	2	1
Dental Assistants	8	9	3	1	2
Nursing Aides, Orderlies, & Attendants	46	54	18	8	10
Physical & Corrective Therapy Assists./Aides	1	1	0	0	0
Pharmacy Assistants	4	5	1	1	0
Maids & Housekeeping Cleaners	19	22	8	3	5
Janitors & Cleaners, Exc. Maids & Housekeeping	9	11	3	2	1
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	42	48	7	6	1
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	2	2	0	0	0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	2	2	0	0	0
Maintenance Repairers, General Utility	19	22	4	3	1
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	1	1	0	0	0
Electromedical & Biomedical Equip. Repairers	1	1	0	0	0
Electricians	1	1	0	0	0
Hand Working, Inc. Assemblers & Fabricators	1	1	0	0	0
Truck Drivers, Light - Incl. Delivery & Route	9	11	2	2	0
Helpers, Laborers, & Material Movers, Hand	6	7	1	1	0
TOTAL ALL OCCUPATIONS	583	680	186	97	89

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	453	545	152	92	60
Financial Managers	25	30	8	5	3
Personnel, Training, & Labor Relations Mgrs.	23	28	8	5	3
Purchasing Managers	8	10	2	2	0
Marketing, Advertising, & Public Rel. Mgrs.	12	14	3	2	1
Administrative Services Managers	13	16	4	3	1
Engineering, Mathematical & Natural Sciences Managers	17	20	5	3	2
Medicine & Health Services Managers	225	271	81	46	35
Food Service & Lodging Managers	20	24	7	4	3
General Managers & Top Executives	55	66	17	11	6
All Other Managers & Administrators	55	66	17	11	6
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	5,578	6,716	2,272	1,138	1,134
Accountants & Auditors	16	19	5	3	2
Budget Analysts	7	8	1	1	0
All Other Financial Specialists	4	5	1	1	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	26	31	7	5	2
Personnel, Training, & Labor Rel. Specialists	34	41	10	7	3
Compliance & Enforcement Inspectors, Exc. Const.	1	1	0	0	0
All Other Management Support Workers	56	67	18	11	7
Civil Engineers, Incl. Traffic	4	5	1	1	0
Electrical & Electronic Engineers	1	1	0	0	0
Industrial Engineers, Exc. Safety	1	1	0	0	0
Mechanical Engineers	5	6	1	1	0
All Other Engineers	15	18	3	3	0
Civil Engineering Technicians & Technologists	5	6	1	1	0
Electrical/Electronic Engineering Technicians	5	6	1	1	0
Mechanical Engineering Techs.	2	2	0	0	0
Drafters	2	2	0	0	0
All Other Engineering & Related Technicians	3	4	1	1	0
Biological Scientists	9	11	3	2	1
Medical Scientists	8	10	2	2	0
Systems Analysts, Electronic Data Processing	36	43	8	7	1
Computer Programmers	7	8	1	1	0
Psychologists	14	17	4	3	1
Social Workers, Medical & Psychiatric	172	207	68	35	33
Social Workers, Exc. Medical & Psychiatric	12	14	4	2	2
Social Service Technicians	10	12	3	2	1
Clergy	13	16	4	3	1
Nursing Instructors	24	29	7	5	2
Teachers & Instructors, Voc. Ed. & Training	1	1	0	0	0
All Other Teachers & Instructors	14	17	6	3	3
Librarians, Professional	7	8	2	1	1
Technical Assistants, Library	3	4	1	1	0
Physicians & Surgeons	40	48	13	8	5
Dentists	6	7	1	1	0
Optometrists	1	1	0	0	0
Podiatrists	3	4	1	1	0
All Other Health Diagnosing & Treating Practitioners	1	1	0	0	0
Respiratory Therapists	194	234	73	40	33
Occupational Therapists	29	35	10	6	4
Physical Therapists	89	107	33	18	15
Speech Pathologists & Audiologists	32	39	12	7	5
Recreational Therapists	12	14	4	2	2
All Other Therapists	8	10	3	2	1
Registered Nurses	2,977	3,584	1,286	607	679
Licensed Practical Nurses	386	465	181	79	102
Emergency Medical Technicians	29	35	10	6	4
Physician Assistants	10	12	4	2	2
Pharmacists	147	177	57	30	27

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Dietitians & Nutritionists	34	41	14	7	7
Dietetic Technicians	37	45	16	8	8
Medical & Clinical Laboratory Technologists	308	371	126	63	63
Medical & Clinical Laboratory Technicians	91	110	33	19	14
Dental Hygienists	3	4	1	1	0
Medical Records Technicians & Technologists	27	33	14	6	8
Nuclear Medicine Technologists	26	31	9	5	4
Radiologic Technologists	132	159	51	27	24
Radiologic Technicians	24	29	9	5	4
Electroencephalograph Techs.	14	17	5	3	2
Electrocardiograph Techs.	39	47	14	8	6
Surgical Technicians	91	110	33	19	14
All Other Health Professionals, Paraprofessionals, & Technicians	231	278	85	47	38
Public Rel. Specialists & Publicity Writers	9	11	3	2	1
Photographers	6	7	1	1	0
All Other Professional, Paraprofessional, & Technical Workers	25	30	7	5	2
SALES & RELATED OCCUPATIONS	30	36	11	6	5
Cashiers	24	29	10	5	5
All Other Sales & Related Workers	6	7	1	1	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	1,912	2,301	791	389	402
First Line Supers.-Clerical & Admin. Support	85	102	28	17	11
Adjustment Clerks	30	36	13	6	7
Medical Secretaries	167	201	78	34	44
All Other Secretaries	63	76	29	13	16
Stenographers	3	4	1	1	0
Receptionists & Information Clerks	25	30	10	5	5
Typists	128	154	63	26	37
Personnel Clerks, Exc. Payroll & Timekeeping	32	39	16	7	9
File Clerks	19	23	9	4	5
Order Clerks - Materials, Merch., & Service	6	7	2	1	1
Procurement Clerks	6	7	1	1	0
Statistical Clerks	178	214	77	36	41
Interviewing Clerks, Exc. Personnel & Welfare	112	135	43	23	20
Bookkeeping, Accounting, & Auditing Clerks	56	67	23	11	12
Payroll & Timekeeping Clerks	17	20	6	3	3
Billing, Cost & Rate Clerks	85	102	37	17	20
General Office Clerks	511	615	224	104	120
Computer Operators, Exc. Peripheral Equipment	21	25	6	4	2
Data Entry Keyers, Exc. Composing	51	61	15	10	5
All Other Office Machine Operators	4	5	2	1	1
Switchboard Operators	96	116	49	20	29
Dispatchers - Police, Fire, & Ambulance	11	13	3	2	1
Stock Clerks - Stockroom, Warehouse, or Yard	111	134	34	23	11
Traffic, Shipping, & Receiving Clerks	9	11	2	2	0
All Other Material Recording/Scheduling/Dist.	14	17	4	3	1
All Other Clerical & Administrative Support	72	87	16	15	1
SERVICE OCCUPATIONS	1,952	2,351	809	399	410
Housekeepers	39	47	15	8	7
All Other Service Supervisors & Managers	54	65	22	11	11
Guards & Watch Guards	42	51	10	9	1
Food Servers, Outside	128	154	42	26	16
Dining Room/Cafeteria Attdts. & Bartdr. Helpers	19	23	4	4	0
Counter Attendants - Lunchroom, Coffee Shop, & Cafeteria	7	8	2	1	1
Bakers, Bread & Pastry	6	7	2	1	1
Cooks, Institution or Cafeteria	68	82	25	14	11
Food Preparation Workers	177	213	71	36	35
All Other Food Service Workers	4	5	1	1	0

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PIMA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Dental Assistants	5	6	2	1	1
Medical Assistants	23	28	10	5	5
Nursing Aides, Orderlies, & Attendants	603	726	264	123	141
Home Health Aides	13	16	4	3	1
Psychiatric Aides	65	78	28	13	15
Physical & Corrective Therapy Assists./Aides	34	41	15	7	8
Occupational Therapy Assistants & Aides	15	18	6	3	3
Pharmacy Assistants	79	95	35	16	19
All Other Health Service Workers	64	77	18	13	5
Maids & Housekeeping Cleaners	439	529	209	90	119
Janitors & Cleaners, Exc. Maids & Housekeeping	67	81	24	14	10
All Other Service Workers	1	1	0	0	0
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	20	24	7	4	3
Gardeners & Groundskeepers, Exc. Farm	20	24	7	4	3
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	404	487	112	83	29
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	24	29	8	5	3
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	9	11	3	2	1
Machinery Maintenance Mechanics	13	15	2	2	0
Maintenance Repairers, General Utility	42	51	12	9	3
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	14	17	4	3	1
Electromedical & Biomedical Equip. Repairers	44	53	12	9	3
Menders - Garments, Linens, & Related	2	2	0	0	0
All Other Mechanics, Installers, & Repairers	6	7	1	1	0
Carpenters	16	19	4	3	1
Electricians	14	17	4	3	1
Painters & Paperhangers - Construction & Maintenance	14	17	4	3	1
Plumbers, Pipefitters, & Steamfitters	8	10	2	2	0
All Other Precision Workers	4	5	1	1	0
Precision Production Occupations	27	33	8	6	2
Laundry/Drycleaning Mach. Opers., Exc. Pressing	50	60	16	10	6
Boiler Operators & Tenders, Low Pressure	7	8	1	1	0
All Other Machine Operators & Tenders	1	1	0	0	0
Hand Working, Inc. Assemblers & Fabricators	4	5	1	1	0
Stationary Engineers	28	34	9	6	3
Truck Drivers, Light - Incl. Delivery & Route	13	16	3	3	0
All Other Motor Vehicle Operators	21	25	5	4	1
Parking Lot Attendants	4	5	1	1	0
All Other Transportation & Moving Equip. Operators	3	4	1	1	0
Helpers, Laborers, & Material Movers, Hand	36	43	10	7	3
TOTAL ALL OCCUPATIONS	10,349	12,460	4,154	2,111	2,043

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PINAL COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	34	39	8	5	3
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	1	1	0	0	0
Marketing, Advertising, & Public Rel. Mgrs.	1	1	0	0	0
Administrative Services Managers	1	1	0	0	0
Medicine & Health Services Managers	23	27	7	4	3
Food Service & Lodging Managers	2	2	0	0	0
General Managers & Top Executives	5	6	1	1	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	281	328	100	47	53
Accountants & Auditors	1	1	0	0	0
Personnel, Training, & Labor Rel. Specialists	2	2	0	0	0
All Other Management Support Workers	1	1	0	0	0
Psychologists	1	1	0	0	0
Social Workers, Medical & Psychiatric	1	1	0	0	0
Social Workers, Exc. Medical & Psychiatric	2	2	0	0	0
Physicians & Surgeons	7	8	1	1	0
Dentists	1	1	0	0	0
Registered Nurses	154	180	60	26	34
Licensed Practical Nurses	41	48	17	7	10
Physician Assistants	1	1	0	0	0
Pharmacists	10	12	3	2	1
Dietitians & Nutritionists	4	5	1	1	0
Dietetic Technicians	3	4	1	1	0
Medical & Clinical Laboratory Technologists	21	25	8	4	4
Medical & Clinical Laboratory Technicians	4	5	1	1	0
Medical Records Technicians & Technologists	9	11	4	2	2
Nuclear Medicine Technologists	1	1	0	0	0
Radiologic Technologists	2	2	0	0	0
Radiologic Technicians	8	9	2	1	1
All Other Professional, Paraprofessional, & Technical Workers	7	8	2	1	1
SALES & RELATED OCCUPATIONS	1	1	0	0	0
Cashiers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	169	199	58	30	28
First Line Supers.-Clerical & Admin. Support	8	9	2	1	1
Adjustment Clerks	3	4	1	1	0
Medical Secretaries	11	13	4	2	2
All Other Secretaries	3	4	1	1	0
Stenographers	1	1	0	0	0
Receptionists & Information Clerks	9	11	4	2	2
Typists	19	22	8	3	5
File Clerks	2	2	0	0	0
Order Clerks - Materials, Merch., & Service	1	1	0	0	0
Procurement Clerks	1	1	0	0	0
Statistical Clerks	18	21	7	3	4
Interviewing Clerks, Exc. Personnel & Welfare	17	20	6	3	3
Bookkeeping, Accounting, & Auditing Clerks	5	6	2	1	1
Billing, Cost & Rate Clerks	8	9	2	1	1
General Office Clerks	30	35	11	5	6
Data Entry Keyers, Exc. Composing	3	4	1	1	0
Switchboard Operators	9	11	4	2	2
Dispatchers - Police, Fire, & Ambulance	3	4	1	1	0
Stock Clerks - Stockroom, Warehouse, or Yard	12	14	3	2	1
All Other Clerical & Administrative Support	6	7	1	1	0
SERVICE OCCUPATIONS	148	174	54	26	28
Housekeepers	4	5	1	1	0
All Other Service Supervisors & Managers	3	4	1	1	0
Food Servers, Outside	16	19	5	3	2

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

PINAL COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Cooks, Institution or Cafeteria	11	13	3	2	1
Dental Assistants	2	2	0	0	0
Nursing Aides, Orderlies, & Attendants	66	77	26	11	15
Pharmacy Assistants	5	6	2	1	1
All Other Health Service Workers	6	7	1	1	0
Maids & Housekeeping Cleaners	35	41	15	6	9
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	11	12	1	1	0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	1	1	0	0	0
Maintenance Repairers, General Utility	8	9	1	1	0
Laundry/Drycleaning Mach. Opers., Exc. Pressing	2	2	0	0	0
TOTAL ALL OCCUPATIONS	645	754	221	109	112

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

SANTA CRUZ COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	10	11	1	1	0
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	1	1	0	0	0
Medicine & Health Services Managers	6	7	1	1	0
Food Service & Lodging Managers	1	1	0	0	0
General Managers & Top Executives	1	1	0	0	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	90	106	28	16	12
Budget Analysts	1	1	0	0	0
All Other Financial Specialists	1	1	0	0	0
Mechanical Engineers	3	4	1	1	0
Social Workers, Medical & Psychiatric	1	1	0	0	0
Social Service Technicians	1	1	0	0	0
Clergy	3	4	1	1	0
Physicians & Surgeons	6	7	1	1	0
Respiratory Therapists	3	4	1	1	0
Physical Therapists	1	1	0	0	0
Recreational Therapists	1	1	0	0	0
Registered Nurses	29	34	11	5	6
Licensed Practical Nurses	17	20	7	3	4
Physician Assistants	1	1	0	0	0
Pharmacists	1	1	0	0	0
Dietitians & Nutritionists	1	1	0	0	0
Medical & Clinical Laboratory Technologists	10	12	4	2	2
Medical Records Technicians & Technologists	1	1	0	0	0
Radiologic Technologists	4	5	1	1	0
Electrocardiograph Techs.	1	1	0	0	0
Surgical Technicians	3	4	1	1	0
Public Rel. Specialists & Publicity Writers	1	1	0	0	0
SALES & RELATED OCCUPATIONS	1	1	0	0	0
Cashiers	1	1	0	0	0
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	27	31	6	4	2
First Line Supers.-Clerical & Admin. Support	6	7	1	1	0
Adjustment Clerks	1	1	0	0	0
Typists	1	1	0	0	0
Interviewing Clerks, Exc. Personnel & Welfare	8	9	2	1	1
General Office Clerks	6	7	2	1	1
Data Entry Keyers, Exc. Composing	1	1	0	0	0
Switchboard Operators	3	4	1	1	0
Stock Clerks - Stockroom, Warehouse, or Yard	1	1	0	0	0
SERVICE OCCUPATIONS	88	104	31	16	15
Housekeepers	1	1	0	0	0
Guards & Watch Guards	4	5	1	1	0
Food Servers, Outside	3	4	1	1	0
Dining Room/Cafeteria Attdts. & Bartdr. Helpers	3	4	1	1	0
Cooks, Institution or Cafeteria	3	4	1	1	0
Food Preparation Workers	11	13	4	2	2
Nursing Aides, Orderlies, & Attendants	50	58	19	8	11
Physical & Corrective Therapy Assists./Aides	1	1	0	0	0
All Other Health Service Workers	1	1	0	0	0
Maids & Housekeeping Cleaners	10	12	4	2	2
Janitors & Cleaners, Exc. Maids & Housekeeping	1	1	0	0	0
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	2	2	0	0	0
Painters & Paperhangers - Construction & Maintenance	1	1	0	0	0
Stationary Engineers	1	1	0	0	0
TOTAL ALL OCCUPATIONS	219	256	66	37	29

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YAVAPAI COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	65	77	17	12	5
Financial Managers	7	8	2	1	1
Personnel, Training, & Labor Relations Mgrs.	4	5	1	1	0
Purchasing Managers	3	4	1	1	0
Marketing, Advertising, & Public Rel. Mgrs.	2	2	0	0	0
Administrative Services Managers	1	1	0	0	0
Engineering, Mathematical & Natural Sciences Managers	6	7	1	1	0
Medicine & Health Services Managers	28	33	9	5	4
Food Service & Lodging Managers	4	5	1	1	0
General Managers & Top Executives	4	5	1	1	0
All Other Managers & Administrators	6	7	1	1	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	627	734	224	107	117
Accountants & Auditors	1	1	0	0	0
Purchasing Agents, Exc. Wholesale, Retail, & Farm	4	5	1	1	0
Personnel, Training, & Labor Rel. Specialists	3	4	1	1	0
All Other Management Support Workers	5	6	1	1	0
Mechanical Engineering Techs.	1	1	0	0	0
All Other Engineering & Related Technicians	1	1	0	0	0
Biological Scientists	1	1	0	0	0
Systems Analysts, Electronic Data Processing	1	1	0	0	0
Psychologists	3	4	1	1	0
Social Workers, Medical & Psychiatric	10	12	3	2	1
Social Service Technicians	9	11	3	2	1
Clergy	3	4	1	1	0
Nursing Instructors	2	2	0	0	0
Physicians & Surgeons	23	27	6	4	2
Dentists	3	4	1	1	0
Respiratory Therapists	19	22	6	3	3
Occupational Therapists	4	5	1	1	0
Physical Therapists	7	8	2	1	1
Corrective & Manual Arts Therapists	1	1	0	0	0
Speech Pathologists & Audiologists	1	1	0	0	0
Recreational Therapists	2	2	0	0	0
Registered Nurses	311	363	121	52	69
Licensed Practical Nurses	63	74	27	11	16
Physician Assistants	1	1	0	0	0
Pharmacists	16	19	6	3	3
Dietitians & Nutritionists	6	7	2	1	1
Dietetic Technicians	1	1	0	0	0
Medical & Clinical Laboratory Technologists	36	42	13	6	7
Medical & Clinical Laboratory Technicians	5	6	1	1	0
Medical Records Technicians & Technologists	14	16	6	2	4
Nuclear Medicine Technologists	3	4	1	1	0
Radiologic Technologists	24	28	8	4	4
Radiologic Technicians	2	2	0	0	0
Electroencephalograph Techs.	1	1	0	0	0
Electrocardiograph Techs.	5	6	1	1	0
Surgical Technicians	9	11	3	2	1
All Other Health Professionals, Paraprofessionals, & Technicians	26	30	8	4	4
SALES & RELATED OCCUPATIONS	5	6	2	1	1
Cashiers	5	6	2	1	1
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	228	265	77	37	40
First Line Supers.-Clerical & Admin. Support	9	11	3	2	1
Medical Secretaries	17	20	7	3	4
All Other Secretaries	24	28	10	4	6
Typists	30	35	13	5	8

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YAVAPAI COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Personnel Clerks, Exc. Payroll & Timekeeping	3	4	1	1	0
File Clerks	5	6	2	1	1
Procurement Clerks	8	9	1	1	0
Statistical Clerks	6	7	2	1	1
Interviewing Clerks, Exc. Personnel & Welfare	26	30	8	4	4
Bookkeeping, Accounting, & Auditing Clerks	8	9	2	1	1
Payroll & Timekeeping Clerks	2	2	0	0	0
Billing, Cost & Rate Clerks	17	20	7	3	4
General Office Clerks	36	42	14	6	8
Computer Operators, Exc. Peripheral Equipment	6	7	1	1	0
Data Entry Keyers, Exc. Composing	2	2	0	0	0
Switchboard Operators	8	9	3	1	2
Stock Clerks - Stockroom, Warehouse, or Yard	6	7	1	1	0
All Other Material Recording/Scheduling/Dist.	1	1	0	0	0
All Other Clerical & Administrative Support	14	16	2	2	0
SERVICE OCCUPATIONS	260	305	92	45	47
Housekeepers	4	5	1	1	0
All Other Service Supervisors & Managers	2	2	0	0	0
Guards & Watch Guards	7	8	1	1	0
Food Servers, Outside	22	26	6	4	2
Cooks, Institution or Cafeteria	15	18	5	3	2
Food Preparation Workers	53	62	19	9	10
Dental Assistants	2	2	0	0	0
Medical Assistants	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	64	75	25	11	14
Home Health Aides	2	2	0	0	0
Psychiatric Aides	4	5	1	1	0
Physical & Corrective Therapy Assists./Aides	6	7	2	1	1
Pharmacy Assistants	10	12	4	2	2
All Other Health Service Workers	5	6	1	1	0
Maids & Housekeeping Cleaners	63	74	27	11	16
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	1	1	0	0	0
Gardeners & Groundskeepers, Exc. Farm	1	1	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	45	52	8	7	1
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	1	1	0	0	0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	1	1	0	0	0
Maintenance Repairers, General Utility	14	16	3	2	1
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	1	1	0	0	0
Electromedical & Biomedical Equip. Repairers	4	5	1	1	0
Carpenters	2	2	0	0	0
Electricians	1	1	0	0	0
Painters & Paperhangers - Construction & Maintenance	2	2	0	0	0
Plumbers, Pipefitters, & Steamfitters	2	2	0	0	0
Laundry/Drycleaning Mach. Opers., Exc. Pressing	4	5	1	1	0
Boiler Operators & Tenders, Low Pressure	6	7	1	1	0
All Other Machine Operators & Tenders	1	1	0	0	0
Truck Drivers, Light - Incl. Delivery & Route	3	4	1	1	0
Helpers, Laborers, & Material Movers, Hand	3	4	1	1	0
TOTAL ALL OCCUPATIONS	1,231	1,440	420	209	211

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YUMA COUNTY

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
MANAGERIAL & ADMINISTRATIVE OCCUPATIONS	35	40	8	5	3
Financial Managers	1	1	0	0	0
Personnel, Training, & Labor Relations Mgrs.	1	1	0	0	0
Purchasing Managers	1	1	0	0	0
Marketing, Advertising, & Public Rel. Mgrs.	1	1	0	0	0
Administrative Services Managers	2	2	0	0	0
Medicine & Health Services Managers	13	15	4	2	2
Food Service & Lodging Managers	1	1	0	0	0
General Managers & Top Executives	9	11	3	2	1
All Other Managers & Administrators	6	7	1	1	0
PROFESSIONAL, PARAPROFESSIONAL, & TECHNICAL	495	574	179	79	100
Purchasing Agents, Exc. Wholesale, Retail, & Farm	1	1	0	0	0
Personnel, Training, & Labor Rel. Specialists	1	1	0	0	0
Industrial Engineers, Exc. Safety	1	1	0	0	0
Electrical/Electronic Engineering Technicians	2	2	0	0	0
Biological Scientists	3	4	1	1	0
Systems Analysts, Electronic Data Processing	2	2	0	0	0
Computer Programmers	1	1	0	0	0
Computer Programmer Aides	1	1	0	0	0
Social Workers, Medical & Psychiatric	2	2	0	0	0
Clergy	1	1	0	0	0
Nursing Instructors	1	1	0	0	0
Teachers & Instructors, Voc. Ed. & Training	1	1	0	0	0
All Other Teachers & Instructors	1	1	0	0	0
Librarians, Professional	1	1	0	0	0
Technical Assistants, Library	1	1	0	0	0
Physicians & Surgeons	5	6	1	1	0
Dentists	1	1	0	0	0
Respiratory Therapists	29	34	9	5	4
Registered Nurses	215	251	84	36	48
Licensed Practical Nurses	110	128	46	18	28
Pharmacists	7	8	2	1	1
Dietitians & Nutritionists	2	2	0	0	0
Dietetic Technicians	1	1	0	0	0
Medical & Clinical Laboratory Technologists	35	41	13	6	7
Medical & Clinical Laboratory Technicians	13	15	4	2	2
Medical Records Technicians & Technologists	20	23	9	3	6
Nuclear Medicine Technologists	1	1	0	0	0
Radiologic Technologists	16	19	6	3	3
Electroencephalograph Techs.	2	2	0	0	0
Electrocardiograph Techs.	4	5	1	1	0
Surgical Technicians	6	7	1	1	0
All Other Health Professionals, Paraprofessionals, & Technicians	7	8	2	1	1
Public Rel. Specialists & Publicity Writers	1	1	0	0	0
SALES & RELATED OCCUPATIONS	5	6	2	1	1
Cashiers	5	6	2	1	1
CLERICAL & ADMINISTRATIVE SUPPORT OCCUPATIONS	242	284	80	42	38
First Line Supers.-Clerical & Admin. Support	36	42	10	6	4
Medical Secretaries	4	5	2	1	1
All Other Secretaries	6	7	2	1	1
Typists	10	12	4	2	2
Typists, Word Processing Equipment	6	7	1	1	0
Personnel Clerks, Exc. Payroll & Timekeeping	6	7	2	1	1
File Clerks	1	1	0	0	0
Statistical Clerks	11	13	4	2	2
Interviewing Clerks, Exc. Personnel & Welfare	21	25	7	4	3
Bookkeeping, Accounting, & Auditing Clerks	2	2	0	0	0
Payroll & Timekeeping Clerks	2	2	0	0	0

ESTIMATED EMPLOYMENT AND JOB OPENINGS
HOSPITALS

YUMA COUNTY (CONTINUED)

	ESTIMATED MAY 1986 EMPLOYMENT	PROJECTED MAY 1990 EMPLOYMENT	TOTAL JOB OPENINGS 1986-1990	JOB OPENINGS DUE TO GROWTH 1986-1990	JOB OPENINGS DUE TO SEPARATIONS 1986-1990
Billing, Cost & Rate Clerks	18	21	7	3	4
General Office Clerks	77	90	30	13	17
Computer Operators, Exc. Peripheral Equipment	3	4	1	1	0
Data Entry Keyers, Exc. Composing	4	5	1	1	0
Switchboard Operators	7	8	3	1	2
Stock Clerks - Stockroom, Warehouse, or Yard	2	2	0	0	0
Traffic, Shipping, & Receiving Clerks	1	1	0	0	0
All Other Material Recording/Scheduling/Dist.	10	12	3	2	1
All Other Clerical & Administrative Support	15	18	3	3	0
SERVICE OCCUPATIONS	146	171	46	25	21
Housekeepers	2	2	0	0	0
All Other Service Supervisors & Managers	4	5	1	1	0
Guards & Watch Guards	8	9	1	1	0
Cooks, Institution or Cafeteria	8	9	2	1	1
Food Preparation Workers	27	32	10	5	5
All Other Food Service Workers	3	4	1	1	0
Dental Assistants	1	1	0	0	0
Nursing Aides, Orderlies, & Attendants	27	32	11	5	6
Psychiatric Aides	1	1	0	0	0
Pharmacy Assistants	2	2	0	0	0
All Other Health Service Workers	31	36	7	5	2
Maids & Housekeeping Cleaners	28	33	12	5	7
Janitors & Cleaners, Exc. Maids & Housekeeping	4	5	1	1	0
AGRICULTURAL, FORESTRY, & RELATED OCCUPATIONS	2	2	0	0	0
Gardeners & Groundskeepers, Exc. Farm	2	2	0	0	0
PRODUCTION, MAINTENANCE, & MATERIAL HANDLING	24	27	3	3	0
First Line Managers/Supervisors - Mechanics/ Installers/Repairers	1	1	0	0	0
All Other First Line Managers/Supervisors - Maintenance/Production/Construction	4	5	1	1	0
Maintenance Repairers, General Utility	11	13	2	2	0
Heating, Air Conditioning, & Refrigeration Mechanics & Installers	2	2	0	0	0
Electromedical & Biomedical Equip. Repairers	2	2	0	0	0
Menders - Garments, Linens, & Related	1	1	0	0	0
Boiler Operators & Tenders, Low Pressure	1	1	0	0	0
All Other Motor Vehicle Operators	1	1	0	0	0
Helpers, Laborers, & Material Movers, Hand	1	1	0	0	0
TOTAL ALL OCCUPATIONS	949	1,104	318	155	163

METHODOLOGY

Sample Selection and Response Rates

Occupational estimates for hospitals were developed from a survey of employers throughout the state. Employers who were asked to participate in the survey were selected from a master employer file of firms doing business in Arizona, using standardized sampling techniques. A sample of establishments employing from four to 249 employees and all establishments having 250 or more employees were surveyed. The entire sample was composed of 84 firms with a usable response rate of 98.8 percent.

Employment Projections

Projecting occupational employment and demand is accomplished in two basic stages. First, total educational services employment is estimated for the target years. These forecasts are computed using an econometric model driven by forecast values for variables such as national unemployment, interest rates, and industrial production. Staffing pattern ratios, as determined by the OES survey, are then applied to the industry employment projections--representing the second stage of the forecasting methodology.

Job Openings

"Total Job Openings" represents the sum of openings resulting from expansion and replacement during the projection period. Expansion is the numerical difference in employment for a given period. Replacement represents job openings that transpire due to separations from the labor force, i.e., death, retirement, and pregnancy. The "Total Job Openings" column does not account for labor turnover, i.e., openings created when a worker changes jobs, leaving the job to be filled by someone else. These vacancies are generally the largest source of job openings.

Limitations of the Data

The projection method does not account for cyclical, seasonal, and such external factors as sudden discontinuations or initiations of major government programs.

Employment forecasts for the nonmetropolitan counties are based on growth rates developed for the "balance of state" (Arizona less Maricopa and Pima counties) rather than for individual counties.

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